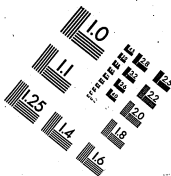
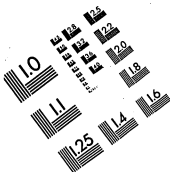




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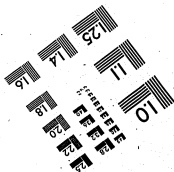
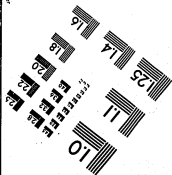
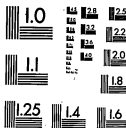
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Centimeter



Inches



Thomas A Edison Papers

A SELECTIVE MICROFILM EDITION

PART II
(1879-1886)

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Frederick, Maryland
1987

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Rutgers, The State University
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18 June 1981

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THOMAS A. EDISON PAPERS
A SELECTIVE MICROFILM EDITION
PART II
(1879-1886)

REEL 72

DOCUMENT FILE SERIES (DOC-32)

D-84-016 [continued] through D-84-022
("Edison, T.A. - Outgoing Correspondence" through
"Electric Light - Armington & Sims")

D-24-016 Edison, T.A. - Outgoing Correspondence

CONTINUED FROM PRECEDING REEL

2

1st 84.

E.S. Hastings Esq.

Treas. Edison Elec. Light Co. City.

Dear Sir:-

We send you herewith estimate, specification of building, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Elec. Light Central station plant of 3200 lights capacity at Syracuse N. Y. the said estimate amounting to \$70,058.04. This estimate is based on the present value of labor and material and we hold ourselves in readiness to close it on the terms stated at any time within 60 days from the date hereof, but not after.

The local Company in executing the contract for the installation of a plant should be careful to comply with the law of the State of New York. A meeting of the board of directors should be called and a resolution passed directing the officers named therein (usually the President and Treasurer) to sign the contract on behalf of the corporation and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgments and administer oaths, and in the acknowledgment should be incorporated an affidavit by the officers that they have signed the contract and affixed to it the corporate seal in and by virtue of a resolution of the board of directors authorized

them so to do; the form of acknowledgement should be such as is required by the laws of the State of New York. The acknowledgement should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed together with a certified cheque for the amount required to be paid upon its execution. On receipt of the contract executed by the Company we will return a duplicate signed.

Yours Truly,

Thos. A. Edison Constn. Dept.

BY.

March 1st 84.

F. S. Hastings, Esq.

Treas. Edison Elec. Light Co. City.

Dear Sir:-

We send you herewith estimate, specification of building, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Elec. Light Central Station Plant of 1600 lamps capacity at Dallas Texas. The said estimate amounting to \$24,796.33. This estimate is based on the present value of labor and wages and we hold ourselves in readiness to close it on the terms stated any time within 60 days from the date hereof, but not after.

The local Company in executing the contract for the installation of a plant should be careful to comply with the laws of the State of Texas. A meeting of the board of directors should be called and a resolution passed directing the officers named therein (usually the President and Treasurer) to sign the contract on behalf of the corporation and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and administer oaths; and in the acknowledgement should be incorporated an affidavit by the officers that they have signed the contract and affixed to it the corporate seal in and by virtue of a resolution of the board of directors authorizing them to

so to do; the form of acknowledgment to be such as the laws of the State of Texas require. The acknowledgment should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company we will return a duplicate signed.

Yours Truly..

Thos. A. Edison Constn. Dept.

By.

March 1st 84.

P. S. Hastings Esq.

Treas. Edison Elec. Light Co. City.

Dear Sir:-

We send you herewith estimate, specification of building, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Elec. Light Central Station Plant of 3200 lamps capacity at New Orleans La. the said estimate amounting to \$69,898.47. This estimate is based on the present value of labor and material and we hold ourselves in readiness to close it on the terms stated at any time within 30 days from the date hereof, but not after.

The local Company in executing the contract for the installation of a plant should be careful to comply with the laws of the State of Louisiana. A meeting of the board of directors should be called and a resolution passed directing the officers named therein (usually the President and Treasurer) to sign the contract on behalf of the corporation and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and administer oaths, and in the acknowledgement should be incorporated an affidavit by the officers that they have signed the contract and affixed to it the corporate seal and by virtue of a resolution of the board of directors

authorizing them so to do; the form of acknowledgement to be such as is required by the laws of the State of Louisiana. The acknowledgement should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed by the Company we will return a duplicate signed.

Yours Truly,

Thos. A. Edison Constn. Dept.

By.

Feb.

authorizing them so to do; the form of acknowledgement to be such as is required by the laws of the State of Missouri. The acknowledgement should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received herewith properly executed together with a certified cheque for the amount required to be paid upon its execution. On receipt of the contract executed by the Company we will return a duplicate signed.

Yours Truly,

Thos. A. Edison Constn. Dept.

By.

March 1st 84.

Wm. T. Perry Esq.

c/o Edison Elec. Ill. Co. Bellefonte Penna.

Dear Sir:-

I understand from Mr. Campbell that you have received some new indicators, and were about to set them up. We intended sending instructions with these indicators, and it was very important that they should be carefully noted before anything was done with these indicators. In setting up these instruments you may have demagnetized the needles on account of sending a powerful current through the bridge coil, and they may appear sluggish, in which case you must take your needles out and remagnetize them.

We send you a copy of instructions by this mail, and a volt box will be sent next week. Please note instructions carefully. The instruments are thoroughly reliable when taken care of properly.

Yours Truly,

Yours Truly,



Mch. 1st. 04.

Honors Principal A. Boyce,

P. O. Box, 68, John Island City.

Gentlemen:-

Referring to your favor of 27th inst.

Will you please let us know in what country the proposed Electric Light Plant for 4000 lights is to be located, as we want to find out whether we can deal with the matter from here, or shall have to refer it to our European representatives.

Yours truly,

Thos. A. Edison, Genl. Dept.

By 

March. 1st. 84.

Spencer Borden Esq.

Gen. Man. New. Eng. Dept. Boston Mass.

Dear Sir:-

We send you herewith estimate specification of building, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Elec. Light Central Station Plant of 500 lamps capacity at Southbridge Mass. the said estimate amounting to \$20,678.15. This estimate is based on the present value of labor and material and we hold ourselves in readiness to close it on the terms stated at any time within 60 days from the date hereof, but not after.

The local Company in executing the contract for the installation of a plant should be careful to comply with the law of the State of Massachusetts. A meeting of the board of directors should be called and a resolution passed directing the officers named therein (usually the President and Treasurer) to sign the contract on behalf of the corporation and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgments and administer oaths, and in the acknowledgement should be incorporated an affidavit by the officers that they have signed the contract and affixed to it the corporate

"2"

Feb.

seal in and by virtue of a resolution of the board of directors authorizing them so to do; the form of acknowledgment to be such as is required by the laws of the State of Massachusetts. The acknowledgment should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a ~~check~~ cheque for the amount required to be paid upon its execution. On receipt of the contract executed by the company we will return a duplicate signed.

Yours Truly,

Thos. A. Edison Constn. Dept.

By.

March. 1st. 04.

John. B. Verity. Esq.

Co B. Verity & Sons.

11 King St. Covent Garden. London. W. C.

My Dear Verity:-

Your letter of 26th inst from ^{Ventnor} ~~Ventnor~~, Isle of Wight, came duly to hand.

How I envy you rustivating at Ventnor. It must be 7 or 8 years since I have been there, and a jolly time I had when I was there. I did a tramp of the whole Island, and have some very lively recollections of a pretty country girl at Freshwater; but there, this is not business.

For your information I give you below prices paid by the Edison Electric Light Co. London for Dynamo-machines of our new type:-

25 light Dynamo.....	\$ 175.00.
50 light Dynamo.....	250.00.
100 " "	400.00.
200 " "	725.00.
300 " "	1075.00.
400 " "	1500.00.

We also give you prices they pay us for Armatures:-

25 light Armature.....	\$ 60.00.
50 " "	75.00.

100 Light Armature.....	\$150.00.
200 " "	350.00.
300 " "	405.00.
400 " "	450.00.

These machines are shipped from here F. O. B. New York. None of them have as yet been sent to England except two machines with Mather & Platt.

Why cannot you make some arrangement with the English Company to buy material direct and deal with the manufacturers here on the basis of royalty to the London Company?.. You would then certainly get better material, and ~~more~~ what you require for your business. The machines we are now turning out are of a very different character to the old machines which the Edison Co. have in London, and ^{are} got up in very much better style; well designed well built, and in fact good looking machines all through.

With relation to Armington & Sims engines. I think for the present we can supply you with those at a lower rate than you can possibly buy them from the makers, or from any agent they may have in London. The Treasurer of the Armington & Sims Co. is now in England. His name is ~~Perdon~~ Armington, American Exchange, 440 Strand. You might communicate with him, and ask him at what prices he would supply you with engines, but do not say that we have written you offering to supply them. The prices at which we can ship you engines are as follows:-

H. O. B. New York

008
008
008

3.

6 1/2 X 8 Engine.....	\$ 600.00.
6 1/2 X 10 Engine.....	800.00.
6 1/2 X 12 Engine.....	1050.00.
14 1/2 X 13 Engine.....	2100.00.

The prices charged by the Armington & Sims Co. to customers in THIS COUNTRY are as follows:-

6 1/2 X 8. Engine.....	\$ 650.00.
6 1/2 X 10 Engine.....	850.00.
6 1/2 X 12 Engine.....	1100.00.

14 1/2 X 13 Engine..... 2250.00.
20. B Providence which means from 15 to 20 lbs more than 20. B New York
 So you see we have you better prices than you can buy the

engines in this country. The reason for this is, Mr. Edison, owing to his first having taken up the Armington & Sims engine has an arrangement with them regarding prices which is considerably better than even their agents in this country have. I might mention also that we are going to build these engines ourselves, as we have just concluded negotiations with this object in view, and our license will in all probability authorize us to ship them abroad, as well as to sell in this country. We can make deliveries very quickly. Anyway, cables to "EDISON NEW YORK" will receive prompt attention should you make enquiries with relation to them.

I send you by this mail a catalogue of the Edison Co. for Isolated Lighting, which will give you a good deal of information

...engine G. X. S. Co.
of X. S. Co.
S. Co.


about the engines, but comparatively little about our new Dynamos, but I enclose you a statement with regard to same giving the dimensions of the new machines which will supplement what scanty information there is about them in the catalogue of the Isolated Co..

If I can give you any further information about these matters or ~~any~~^{any} other matters in relation to Isolated business, do not fail to call upon me for it.

I was very sorry not to have seen you before I left London, but if you will only come out here some time this year or any other year when you have an opportunity, I will do all I can to repay you for the very great kindness shown me by your family and yourself.

I am fixing up the nicest little "diggings" imaginable, and all I wish is that I could go to Verity & Sons' store and order some of the elegant fixtures which I saw there, as that is all that is wanted to complete the effect..

With kind regards to your Aunt and Uncle, and the rest of the people at Morocroft, I remain,

Very truly yours,


P. S.

On Sunday it was quite warm here, but to-day it is so cold

...ed ...
...ed ...
...ed ...

51

that if you take a cigar out of your mouth the end almost freezes before you can get it between your lips again, but still the weather is very enjoyable.

Mach. 1st. 04.

A. Stuart, Esq.

Secretary, Cincinnati, Ohio.

Dear Sir:-

Your favor of 27th inst came to hand this morning.

We will have a 100 light estimate for Careleville prepared and forwarded by next Thursday's mail.

As our previous letters will have explained to you, Mr Rich has left ^{for} Piqua, and is amply provided with funds to pay his note.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

Mch. 1st. 04.

A. Stuart, Esq.

Secretary, Cincinnati, Ohio.

Dear Sir:-

Your telegram with relation to Circleville estimate came to hand last night.

It is impossible for us to send the 500 light Circleville estimate to-day, in as much as we have to make a new electrical determination.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

Mch. 1st. 184.

A. Stuart, Esq.

Soc'y. Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of 28th inst, and in reply would refer you to our letter of same date, which has doubtless reached you ere this.

We will deal with the Tique contract immediately Mr. Tite returns. He understands the matter, and we regret that we do not.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

Mich., 1st. 84.

A. Stuart, Esq.

Carey, Cincinnati, Ohio.

Dear Sir:-

Further referring to your letter of complaints about
lamp breakage at Tiffin.

We beg to enclose you herewith copy of a letter we have
received from the Lamp Company in relation to this matter.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

Mch 3rd, 04.

A. S. Missoll, Esq.

2418 Prairie Avenue, Chicago, Ill.

Dear Sir:-

We have your favor of 28th ~~inst~~, and in reply beg to state that the lot 60 X 90 on west side of State St, being 104 feet north of northwest corner of State and Clinch Sts, is the best suited for the purpose of our Station.

We will send you an estimate for Knoxville in about 15 days from date.

Yours very truly,

Thos. A. Edison, Const. Dept.

By 

March 3rd, 84.

W. J. Jonks. Esq.

Manager. Brockton, Mass.

Dear Sir:-

Will you please return whatever you do not require of the material sent you, to the Edison Construction Dept, Co Messrs Bergmann & Co, 292 Avenue B, New York.

Your prompt attention to the above will oblige, as we want to use some of the material.

Mr. Sirague says he has written you with reference to your favor of 27th ultimo which we received this morning.

Will you please return the old pressure indicators which you can get along without, as we wish to alter them to conform with the new style. Also let us hear about the working of the new Indicators.

Yours truly.

Thos. A. Edison. Const. Dept.

By 

March 3rd. 84.

Major Eaton:-

Annexed please find letter from Mount Carmel which will supplement the one already sent you.

When the Mount Carmel people were down here, Mr. Shaw was very loud in stating that they were the finest people we could deal with, and that if we once closed the contract there would be no question about the money.

Our experience with Mount Carmel is the same as with all Mr. Shaw's other towns except Hazleton.

Yours truly,

S. Inall.

Per McG.

Feb. 3rd., 84.

H. Ward. Leonard. Esq.

Mount Carmel, Pa.

Dear Sir:-

We have your favor of 29th ultimo, together with a very lucid report as to the working of the Station at Mount Carmel. The information which your statement conveys is exactly what we desire, and enables us to give an intelligent account of the work being done in Mount Carmel.

Yours truly,

Thos. A. Edison, Const. Dept.

By

Can you get at the running expenses of the station & thus enable us to compare them with receipts

March 3rd, 04.

E. W. Ford, Esq.

Treasurer, Lawrence, Mass.

Dear Sir:-

Will you please let us know how the new Pressure Indicators are working?

If you can drop us a line in relation to this matter ^{even} within the next few days, we will be greatly obliged.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 3rd. 84.

W. H. Dweilley, Jr. Esq.

Treasurer. Fall River, Mass.

Dear Sir:-

Will you please let us know how the new Pressure Indicators are working.

If you will drop us a line ^{every} ~~once~~ a day or two in relation to this matter we will be obliged.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

Mch. 3rd, 84.

H. M. Doubleday, Esq.

Shamokin, Pa.

Dear Sir:-

We have your favor of 20th ultimo giving detail report of the Shamokin Plant.

We are very glad you have got the Plant running in good shape.

We hope that when the new pressure indicators get there they will be able to keep the lamp breakage down, though I imagine they will require the pressure regulators as well.

The trouble in the steam piping is owing to the local people taking the work into their own hands. We had nothing to do with it.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

Mich. 3rd. 1911.

W. S. Andrews, Esq.

Hollafonte, Pa.

Dear Sir:-

We think for the information of our office it would be a good idea to have a form report sent in weekly at the same time the expense accounts are rendered. This would enable us to get exactly the information we want from each of your experts. We could have ample room on the report for all remarks, and have it understood that in addition to the report, one letter at least is to be written semi-weekly, giving us ^{general} information about the running of the Stations.

If you have not time to get up such a form, I think it would be a good idea to turn it over to Leonard and Conant, and see what they can get up for us.

I notice all Leonard's reports of general work and Meter Dept are by far the best we receive from any of your assistants.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 3rd. 84.

W. S. Andrews, Esq.

Hellefonte, Pa.

Dear Sir:-

We have your several favors as to Shamokin, and should strongly advise that Mr. Doubleday should be kept there somewhat longer. It is an expense to us, but still we are very anxious to have the Shamokin plant run properly.

Can you give us any information as to variation in life of lamps in the different parts of the system. Does the heavy breakage take place in the old part of the system, and the lighter breakage take place in the line of conductors put up by the local Company? Or in other words; have they by taking the matter into their own hands upset our system?

Yours truly,

Thos. A. Edison, Const. Dept.

By 

What I mean is Do they have to run their lamps high near the station to get pressure at the distant points.

Mch, 3rd, 84.

W. S. Andrews, Esq.

Bellefonte, Pa.

Dear Sir:-

Mr. Conant was hanging round here waiting for the Danbury matter to turn up, and as it did not we sent him to Newburgh which I hope will meet with your approval.

He asked us whether you were going to send him another man. What do you propose to do in the matter?.

Yours truly,

Thomas A. Edison, Conat. Dept.

By 

March 3rd. 1884.

W. S. Andrews, Esq.

Bollefonte, Pa.

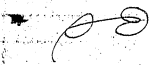
Dear Sir:-

Will you please tell us something about W. North
Robins, who has been working at Hazleton at wiring?

He wants more work from us, and we wish to know what
you think of his capabilities.

Yours truly,

THOS. A. EDISON, Const. Dept.



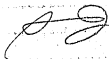
March 3rd, 04.

My Dear Joe:-

This will introduce to you my friend Mr. H. B. Mitchell who crossed with me in the "Pavonia".

I have asked him to call upon you at Virden, and any hospitality you can offer him will be as fully appreciated as if it was to myself.

Very affectionately yours,

A handwritten signature in dark ink, appearing to be 'J. B. Mitchell', written in a cursive style.

Mch. 3rd. 84.

H. B. Mitchell. Esq.

Winnipeg. Manitoba. Canada.

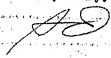
My Dear "Manitoba" -

The next time you are in Virden will you do me the favor to enquire into the standing of my Brother there, and write me whether his land is good for anything, whether his prospects are regarded good by people around, and in fact any information you think would be of interest to me.

I do not know how I can repay you for this service, (which you were good enough to say you would render me if I wrote you) except by asking you to present the enclosed letter to my Brother.

If you are staying at any time in Virden, I am sure if you call on him the enclosed will assure you a hearty welcome and a share of whatever he has there for himself.

Yours very truly,



March 3rd, 1914.

H. Ward, Leonard, Esq.
Mount Carmel, Pa.

Dear Sir:-

We have your favor of 27th ultimo, and will see that the book you ask for is sent forthwith.

We do not think it would be practicable to send the plates for one Station to another place in order to have them got in shape. It would incur a great deal too much attention, and entirely too much shipment and re-shipment. This is one of the difficulties we have to put up with, but we are much obliged to you all the same for the suggestion.

We are also obliged for the information you give us about accounts due in Mount Carmel. We will attend to the settlement of those immediately.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

P.S.

If the book you refer to is anything different from the ordinary Meter book which we supply to Local Companies, please procure one and charge it in your expense sheet.

March 3rd, 04.

A. A. Cowles, Esq.

19 Cliff St. New York.

Dear Sir:-

In a letter from Mr. Batchelor received by us to-day, he casually mentions that one of the principally interested parties in the largest Brass & Copper Co. in France is going to take a very large interest in our Company there and assume the Presidency of it.

I should think this would be just the man you want to get hold of to operate your patent in France. If you like I will write Mr. Batchelor about it, and get him to cable in reply what he would think of the parties I refer to.

I cannot give you the name just now as it is mentioned to me in a ^{Cowles} ~~business~~ some negotiations which I am requested to keep strictly private.

Yours truly,



Mch. 3rd, 94.

Arthur, S. Boves, Esq.

Tiffin, Ohio.

Dear Sir:-

We have your favor of 29th ultimo, and are much obliged for the information it contains.

Will you please give us some data as to the amount of the bills at Tiffin for month or half month which have been rendered, and the amount of running expenses.

What we want to get at is whether the Station is at present running at a loss or profit.

Yours truly,

Thos. A. Edison. Const. Dept.

By



March 3rd. 84.

Western Edison Light Co.

Chicago. Ill.

Gentlemen:-

We have your favor of 29th ultimo, and will see that copies of the test made by the Testing Dept of the Light Co. are sent you whenever we ship you dynamos.

Yours truly,

Edison Machine Works.

By

A handwritten signature in dark ink, appearing to be the initials 'ED' or similar, written over a horizontal line.

March 4th. 04.

John Fruesi. Esq.

Electric Tube Co. New York.

Dear Sir:-

Referring to your bid for the Williamsport plant which you gave us as \$37,905.61.

In reporting on this matter to Major Eaton we have stated your bid as \$48,591.08. This will amount to exactly the same thing as if we were to take the contract to do the work ourselves.

Should you be called upon to supply a bid for this work, we trust you will ^{do so} ~~use~~ in accordance with the amount we have mentioned, in order that your figures may agree with ours.

Yours truly.

WPC

March 4th, 04.

Major Eaton,

Your memo of 4th inst to hand.

I am very sorry for what has occurred at Hazleton, I gave special instructions that the Hazleton Plant should be carefully nursed.

I leave New York to-night for Bellefonte, Sunbury, Hazleton, Mount Carmel, and Shamokin.

I have to-day written Markle Bros that I shall be there, and when I get to Hazleton I will look closely into the whole matter and do my best to fix same up.

S. Insull,

per McC.

March 4th. 1884.

S. B. Eaton, Esq.

President. New York.

Dear Sir:-

We beg to hand you herewith ground plan for Central Station at Williamsport, Pa. together with foundation plans of dynamos and engines, and also map showing where the Williamsport Co. should run the conductors, should they decide to place same underground. In consequence of overhead lines running over private property, to some extent, it was necessary to alter the location of the conductors if to be underground.

The bid of the Electric Tube Co. for making tubes and laying same as per plan attached is \$43,591.00.

Yours truly,

Thos. A. Edison, Const. Dept.

By



March 4th, 04.

Major Eaton:-

Mr Stuart is off his ear. I have never refused to sign the Piqua contract. All I have refused to do, is to sign a contract which I know nothing whatever about.

I wrote a letter to Mr Stuart, (to which I can ~~attach~~ ^{attach} ~~any~~ ^{any} reason to his taking objection) informing him that I was totally unacquainted with this new contract, that the whole discussion took place during my absence, and that I would be very much obliged if he would allow the matter to stand until Mr Tate's return, Mr Tate being now in Canada.

I do not think this was at all unreasonable.

I am much surprised that Mr Stuart should write you in the way he has regarding the matter.

I write him again fully to-day, explaining my position.

I may say that our work at Piqua is going on irrespective of signing the contract.

I hand you herewith copy of our letter to Mr. S of ²⁸ ~~the~~ ultimo, and also copy of to-day's letter.

S. Insull.

March 4th, 1884.

Mr. Hutchinson:-

I have received the enclosed order from Boston. We have never received any notification that we were to accept orders sent direct from New England Dept. Will you please post me as to this matter?.

Also inform me to whom we are to look for payment, and whether we are likely to get orders right along of this character.

Are we expected to carry a stock for the New England Dept

I may state we have no "E" armatures in stock.

S. Insull,

per McC.

March 4th, 04.

W. S. Andrews, Esq.

Bellefonte, Pa.

Dear Sir:-

Referring to your favor of 2nd inst, as to regulator
on Mount Carmel engine.

The explanation you give is satisfactory. What we
wanted to get at was whether Mr Leonard had taken upon himself to
make alterations.

Yours truly,

Thos. A. Edison, Const. Dept.

By



March 4th. 84.

Armington & Sims Engine Co.

Providence, R.I.

Gentlemen:-

We have this day received a telegram from Mr. Edison, authorizing me to agree to the proposed royalty, which, as arranged with Mr. Howard was to be paid on some basis which would amount to about 10 per cent of the present selling price to us of your engines.

I have accordingly wired you this afternoon to this effect, and have asked you to advise Governor Howard of this immediately.

Yours very truly.

A handwritten signature in dark ink, consisting of two large, stylized, overlapping loops, likely representing the initials 'P.S.' or a similar name.

March 4th, 84.

W. S. Andrews, Esq.

Hellefonte, Pa.

Dear Sir:-

We have your favor of 2nd inst. We have stopped work on the pressure indicators, and will ship no more until you have read the enclosure ~~sent~~^{received} from Mr. Sprague, which together with instructions which he prepared for us, which were sent to you, and which we speak of elsewhere will give you full information about the pressure indicator, and will in all probability alter your opinion in relation to the matter.

I shall take a Volt Box with me to Hellefonte.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 4th. 04.

C. P. Lyon, Esq.

66 National Hotel, York, Pa.

Dear Sir:-

We have your favor of 3rd inst with relation to canvassing of York, and we will leave to you the question of size of district.

We have also your favor giving us information about Mr. Wilhelm for which we are obliged.

Yours truly,

Thos. A. Edison Const. Dept.

By 

March 4th. 84.

Messrs Markle Bros.

Hazleton, Pa.

Dear Sirs:-

We have a letter from Mr. Andrews stating that you complained to him that only 130 test lamps instead of 250 were supplied to your Company.

When closing up the account with relation to the contract we will make the allowance for 100 lamps short, as we put into the Station all that Mr. Andrews thought would be necessary. We presume this will be perfectly satisfactory to you.

Will you please look into the matter of you Station, and make a list of any complaints you have to make, as the writer hopes to call upon you in a day or two, and anything that is wrong in connection with your Station, he would like to have ^{details} ~~known~~ so that the matter may be set right.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 4th. 84.

W. D. Rich. Esq.

Piqua. Ohio.

Dear Sir:-

We constantly find that your departure from our original understanding, to send to us requisitions for all goods over small amounts and allow us to send the orders ourselves and receive the bills at this office, is causing us a great deal of trouble. Bills do not come in to us until long after the material is supplied, and in fact long after the bills themselves are overdue. There is of necessity a certain delay in getting these bills through our books and properly vouchered ready for payment, which results in our bills being most ~~commonly~~ ^{abominably} overdue before we can get them ready for payment. We have never received received from you a notification to the effect that you intended to adopt any other method that that laid down by us, but we have tacitly allowed the change to take place. We must have a change in this respect, and the next time you are in the city we wish to discuss the matter with you. If they go on as they now are, the result will be unlimited trouble to us, and considerable odium in addition, for not making payments as promptly as they should be, ^{as we are able to make these} ~~in fact~~ in fact as we are anxious to make them.

Yours truly
W. D. Rich

March 4th. 04.

W. S. Andrews, Esq.

Bellefonte, Pa.

Dear Sir:-

Referring to your favor of 2nd inst as to Steven's and
Bovos' salaries, ~~and~~ the arrangement you have made is perfectly
satisfactory to us.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 4th. 64.

Mr. [unclear]:-

Please note that I have put N. C. Stevens, one of Andrews' assistants, on a salary of \$10. per week, and that I have raised Beves' salary from \$10. to \$15. per week. These changes take place from the first of March. Please fix accounts to correspond.

S. Insull,

per McC.



March 24th, 04.

Spencer Trask, Esq.

71 Broadway. New York.

Dear Sir:-

Just as I am leaving the city with Mr. Graves to visit some of our small Stations in Pennsylvania, I receive a memo from Major Eaton asking if we can arrange to test at our Machine Works the patent fuel in which you are interested.

Immediately on my return I will see what can be done and communicate with you. I have no doubt we can arrange to have the test you desire made sometime during next week.

Yours truly,

A handwritten signature in dark ink, appearing to be 'J. M. R.', is written below the typed text.

March 4th, 1911

Mr. Tomlinson:-

Ought we not to arrange for a formal taking over of the Machine Works by the new Company? And ought not Bergmann & Co. to arrange for a formal taking over of their business?

And ought we not to issue a circular in relation to it?

Was such a circular ever issued in connection with the Lamp Company, or any formal assignment of the business made?

Yours truly,



March 4th. 84.

A. Stuart, Esq.

Secy. Ohio Edison Electric Installation Co. Cincinnati, O.

Dear Sir:-

I have seen your letter of 1st inst to Major Eaton. We very much regret that you should have written him in the manner you have with relation to the Piqua contract., as we wrote you on the 28th ult. that our only reason for not signing the contract was for want of knowledge of the whole subject, and the writer hardly likes to exercise his power to sign for Mr. Edison unless he is acquainted with the matter he is dealing with.

I told you that immediately Mr. Tate came back we would attend to the matter, and asked if you would be kind enough to allow us the delay. It does not delay your work at all, neither does it cause you very great inconvenience so far as we can see.

We do not doubt that your statement about the contract is exactly in accordance with your understanding with Mr. Edison, but it would be hardly business like on our part to execute the same without having some knowledge of the matter from Mr. Tate, who is fully conversant with the discussions which took place in relation to it.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

March 4th, 94.

A. Stuart, Esq.

Secy. Cincinnati, Ohio.

Dear Sir:-

Referring to your telegram as to Central Station
at Circleville,

I beg to enclose you a rough sketch showing the position
where we locate the Central Station as we understand it from your
despatch.

Please wire us if the position indicated is the right
one.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 4th 1884.

Geo. W. Bliss Esq.

Gen. Man. Western Edison Light Co. Chicago Ill.

Dear Sir:-

We have your favor of the 1st inst. as to Des Moines, and in reply beg to state we require information with respect to this Station as follows: Before we can supply you with an estimate.

horse power of present boilers, and pressure they were designed to carry. Size of steam piping, size of exhaust piping, location of exhaust piping after leaving heater, and what make and number are pump and feed water heater, location and sizes of Hot Well. Are we supposed to use the present slow moving engine now in the Station, which we understand to be about 200 H. P. Are we right in our supposition in this connection? We very seriously object to design a Station to run with a slow moving engine and countershafting, and would want it clearly understood that in case of our taking a contract for the work we would assume no responsibility whatever in connection with this method of running.

If you will supply us with this information we can proceed with the estimate.

Yours Truly,

Thos. A. Edison Constn. Dept.

BY. 

March 4th. 84.

Western Edison Light Co.

Chicago, Ill.

Dear Sirs:-

We have your favor of 28th ultimo, and in reply beg to state that according to the test of "Y" No 10 which you now have in Marshall, Perry & Co's establishment, at a speed of 1230 revolutions it gave 277 amperes with 113 volts at dynamo and 111 volts at lamps, which shows quite a surplus of electromotive force.

We cannot understand how the dynamo could have been in the condition you say it was when you received it, that is, with relation to the workmanship, as it was tested, and an inspection of machinery was made before it left the shop.

We will however allow you the bill you send us, namely, \$15.40, which we have accordingly credited to your account.

We hardly know what solution of the trouble to suggest, but we will do anything that is reasonable, and should therefore like to have your views in the matter.

Yours truly,

Edison Machine Works.

By 

March 5th, 14

Messrs Armington & Sims Engine Co.

Providence, R. I.

Dear Sirs:-

We have received a letter from Mr. Andrews in which appears the following paragraph:-

"Messrs Armington & Sims telegram about the springs sent being right for a speed of 300 revolutions came duly to hand, but I must inform you that although the engine will run 300 or a little more with no load, Mr. Tonnoy has as yet been unable to make her run more than 290 or 288 with a load of 350 lamps".

You will see from this that we only take 35 H. P. out of the engine and that it will not attain the desired speed. There seems to be something wrong with this engine. We wish you would write your views to your man there.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

[FROM JOHN R. CAMPBELL?]

March 5th. 84.

A. Stuart, Esq.

Secy. Cincinnati, Ohio.

Dear Sir:-

In the contract for Piqua sent you there is no description of the lot on which the Central Station is to be built..

In our form there was a recitation to the effect that the Company had purchased and owned a plot of ground, situated etc (here a description of the lot was given and references made to exhibit A on which it was shown by diagram).

This clause you have eliminated, but in the fifth clause of your contract, where the Company agrees that they have acquired a title to the lot, it reads as in our form when the lot is referred to as "hereinbefore described"; in your contract. This is meaningless because no description of the lot is given.

We have inserted after the word "ground" in the second line of fifth clause a description of the lot both in the now contract we have executed and in the one signed by you, and have erased "hereinbefore described". This makes it clear, and expresses what we both desire. In acknowledging receipt of this letter please ratify this correction.

Yours truly.

Thos. A. Edison, Const. Dept.

By
TAC

March 6th. 04.

W. D. Rich Esq.

Piqua Ohio.

Dear Sir:-

Enclosed we beg to hand you a letter from Mr. C. S. Miller the Manager of the Tiffin Central Station enclosing bills for his salary, and the salary of the engineer, each from Dec. 26th to Jan. 26th, and each amounting to \$65-. If these are correct please certify and return them at once as we desire to pay them they being some time overdue.

Yours Truly.

Thos. A. Edison Constn. Dept.

By.



March 6th. 84.

P. S. Hastings Esq.

Treas. Edison Elec. Light Co. City.

Dear Sir:-

We are in receipt of your letter of the 5th inst asking us to prepare estimates for 500, 800 and 1000 light plants for Ashland Penna, and send them to Mr. Shaw at Williamsport.

In regard to your request as to the approximate date when these will be finished, we beg to say that we will send these forward about the latter end of next week.

Yours Truly.

Thos. A. Edison Constn. Dept.

By.

March 6th. 04.

W. S. Hastings Esq.

Treas. Edison Elec. Light Co. City.

Dear Sir:-

Referring to your memo, attached, to Mr. Insull, I find that the estimate you ask for as to the cost of running expenses, and probable profits for a 3200 light plant was handed to Major Eaton on Monday last, and also have reason to believe that Major Eaton has written Mr. Crouse in reference to the matter, but as to this I may be mistaken.

Yours Truly,



March 6th. 84.

F. S. Hastings Esq.

Treas. Edison Elec. Light Co. City.

Dear Sir:-

Referring to a request which we made of you some time ago in reference to your furnishing this department with the necessary authority for the installation of the various plants now underway together with those already completed, Will you be kind enough to let us have this authority at once in order that we may attach the same to our contracts with the local Companies, as without the endorsement of the Light Company, our agreements with these parties are incomplete.

Yours Truly.

Thos. A. Edison Constrn. Dept.

By.



March 6th. 04.

F. H. Doubleday Esq.

Shamokin Penna.

Dear Sir:-

Referring to the attached expense sheets for week ending 14th inst, we beg to say that it is not necessary for you to render two expense sheets for one week, but they should be sent in after the manner of the other sheet which you enclosed with the above.

In regard to the amount of \$2.75, we do not understand whether we should credit the Illuminating Company of Fall River with this amount or not, please let us know if we should do so. We return two of your expense sheets, in order to explain this latter item, these you can retain.

Yours Truly,

Thos. A. Edison Constr. Dept.

By.



Encls.

March 6th. 84.

Thos. P. Conant Esq.

c/o Edison Elec. Ill. Co., Newburgh N. Y.

Dear Sir:-

We are in receipt of your letter of the 4th inst, in reference to the new break Down switch which you have designed, and which you state ^{Messrs} ~~the~~ Bergmann & Co. are making.

In regard to the new style indicators, we have written to the above firm impressing upon them the necessity of hurrying these forward, and you will have them by the time you are ready to use them.

In regard to the "Y" dynamos with the "S" regulator, we will write you further to morrow. Enclosed we beg to hand you our check No. 708 of to day's date for \$50- on account. Please sign and return the enclosed receipt.

Yours Truly.

Thos. A. Edison Constn. Dept.

By 

March 6th. 84.

Messrs. Berghmann & Co.

292 Ave. B. City

Dear Sir:-

We are advised by Mr. Conant that he returned from Newburgh a day or two ago to your address 8 pressure indicators. Will you kindly have these altered at once to correspond with the new type of indicator, and return them to the above point.

We still require notice of shipment of the following new style pressure indicators. 2 for Mt. Carmel, 4 for Sunbury, 6 for Tiffin, and 4 for ~~Conant~~ ^{Newburg} ^u ^{middletown}. In addition to those for Newburgh we believe you have on hand enough ~~old~~ style indicators to fill these orders after they have been altered. Kindly rush this work for us.

Yours Truly .

Thos. A. Edison Constn. Dept.

By.



March 6th. 84.

Messrs. Barmann & Co.

292 Ave. E. City

Dear Sirs:-

There will be returned to you from Newburgh two "S" regulators, which we desire you to receive and hold subject to our orders. We are sending you an order to day for two "Y" regulators which please make us quickly as possible and forward to Thos. P. Conant Newburgh. Can you give us the approximate date of shipments for these?

Yours Truly,

Thos. A. Edison Constn. Dept.

By. 

Encls.

Major Eaton:-

March 7

Enclosed is a copy of my rough notes with relation
to the stations I have visited.

Saml. Insull.

By. Me.

March 7th. 1884.

McK 7th, 84.

Major Eaton:-

I enclose you herewith statement of expenses referred to in your memo of 5th inst.

The tickets you refer to are the excursion tickets of Ott and Potts. When their salary was last arranged it was understood that they were to have so much allowed them for railroad fare, one from Newark, and the other from Menlo Park. This is another way of paying them more salary.

What Electric Vacuum Deposit experiments are, I cannot say as I have not heard of them before. I presume they are some Light Co's experiments which Mr Edison has given instructions to have made.

With relation to Pressure Indicator. These experiments are in connection with the matter about which we have talked so much about recently, namely, Pressure Indicator, and also Standard Volt box which is to be used in connection with the Indicator.

I hope this explanation will be satisfactory.

Yours truly,

S. Insull.
per McC.

March 7th. 84.

W. J. Garrison Esq.

Boston Mass.

Dear Sir:-

Referring to your favor of the 6th inst. I should prefer that the matter of taking stock, instead of cash for the dynamo you refer to should remain open until Mr. Edison's return, which will probably ~~be~~ inside of two weeks. Will this be soon enough for you, or do you want our decision earlier.

Yours Truly,

Thos



March 7th. 04.

Thos. P. Conant Esq.

c/o Edison Elec. Ill. Co. Newburgh N. Y.

Dear Sir:-

Will you please find out for us expenses of running service to the station, also read the enclosed and return it. We thoroughly endorse what Mr. Hughes says.

Yours Truly.

Thos. A. Edison Constn. Dept.

By. 

Encl.

March 7th. 1941

Thos. P. Conant Esq.

c/o Edison Elec. Ill. Co. Newburgh N. Y.

Dear Sir:-

Referring to your favor of the 4th inst. Will you please discuss with Mr. Andrews the new switches you speak of.

Yours Truly,

Thos. A. Edison Constr. Dept.

By. 

March 7th. 84.

Mr Hutchinson:-

Enclosed is the letter from Mr. Stuart which I spoke to you about.

I consulted Major Eaton on the subject, and he considers it a good idea for the Isolated Co. to rent the machines.

S. Insull.
per McC.

Mr. Hutchinson:-

We had to enclose you herewith another order from
the New England Dept. Why dont you arrange to have orders come
through you, as when they come direct to us it causes trouble and
delay.

Saml. Inoull

By. McG.

March 7th. 84.

March 7th. 84.

Messrs Drexel, Morgan & Co.

New York.

Dear Sir:

I have received a telegram from Mr. Edison, instructing me to use my own discretion in relation to the subject matter of Mr. Gouraud's letter in connection with the Indian and Colonial Company, about which you asked Mr. Edison to give his views.

I will call down to see you on Saturday or Monday in relation to the matter.

In the meantime, will you please peruse the enclosed letter from Col. Trench, one of the Directors of the Company.

Yours truly,



March 7th. 84.

Messrs Armington & Sims Engine Co

Providence, R. I.

Gentlemen:-

We understand that you stated that the engine at Bellefonte could run at 325 revolutions. We want to do so temporarily anyway, if you have no objection.

I regret very much to hear that Gov Howard is sick. I dare say he suffers from the same trouble as many of the rest of us, namely, overwork.

Yours truly,



March 7th, 1884.

H. A. Clarke, Esq.
Baltimore, Md.

Dear Sir:-

Referring to your favor of 6th inst. We will forward the Harrisburg estimate on Thursday next, but we cannot get it out before.

As we told you before, if you want canvasses made, you should make your arrangements with the Edison Electric Light Co. so that we may know well in advance when to send a man to any of your towns. You cannot expect us to keep men waiting here for orders to canvass a town.

We have so many places that require to be canvassed that unless the course above suggested is followed, the result must inevitably be long delay and annoyance to yourself.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 7th, 84.

W. D. Rich, Esq.

Piqua, Ohio.

Dear Sir:-

We wrote you some days ago, asking you to attend to some matters at Tiffin. This Station must be fixed up to the satisfaction of the local people at once. The trouble with the gutter and water-spout they characterize as a very bad job. This should be attended, to immediately, and also the matter of completing the roof.

The writer was at Mount Carmel yesterday, and noticed that the roof there was looking like a sieve.

You state that the trouble is, ~~that~~ we cannot properly cover the roof without good weather. You must have known this prior to the erection of the building, and it surprises us that you did not select some other material for the roof, as it very severely reflects on our business, and causes considerable trouble. People will not accept the excuse "that we cannot finish our work until better weather comes".

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 7th, 1914.

Mr. Tate:-

I have promised Harrisburg estimate for Thursday next.
I have promised estimate of the cost of increasing
Circleville Plant from 500 to 1000 lights.

Have promised Orange estimate for Monday or Tuesday, and
also Irvington.

They have to be turned out right away, even if we have
to work on Sunday.

S. Insull,
per McC.

March 7th. 04.

A. Stuart Esq.

Soc. Ohio Edison Elec. Installation Co.

Cincinnati Ohio.

Dear Sir:-

We send you herewith estimate, specification of building, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Elec. Light Central Station Plant of 500 lamps capacity at Circleville Ohio the said estimate amounting to \$15,291.63. This estimate is based on the present value of labor and wages, and we hold ourselves in readiness to close it on the terms stated at any time within 60 days from the date hereof, but not after.

The local Company in executing the contract for the installation of a plant should be careful to comply with the laws of the State of Ohio. A meeting of the Board of Directors should be called and a resolution passed directing the officers named therein (usually the President and Treasurer) to sign the contract on behalf of the corporation and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and administer oaths, and in the acknowledgment should be incorporated an affidavit by the officers that they have

signed the contract and affixed to it the corporate seal in and by virtue of a resolution of the Board of Directors authorizing them so to do; the form of acknowledgment to be such as the laws of the State of Ohio require. The acknowledgment should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution. On receipt of the contract executed by the Company we will return a duplicate signed.

Yours Truly

Thos. A. Edison Constn. Dept.

By.



March 7th. 84.

A. Stuart Esq.

Sec. Cincinnati Ohio.

Dear Sir:-

We have your favor of the 4th inst with relation to the "Block Plan" for Cincinnati. In our opinion it would be very necessary to have a proper canvass made, and also electrical determination, and you would want to run on the three wire system, and you would have to use some tubing. If this installation is made in the ordinary manner we think you would have trouble with your candle power.

Our man is now at Covington, and if you get authority from the Edison Electric Light Co. we will be very pleased to have the canvass made. Can you give us some information as to where we should put the plant. Amount of space available, and how we should get at it, as these various questions would enter largely into our estimate.

Is it proposed to put the plant in the place shown by you to the writer?

In anticipation of your reply we will have the data collected for making out as much of the estimate as we are able to do

from the limited information we have.

Yours Truly

Thos. A. Edison Constn. Dept.

By.



112 11000

March 7th. 04.

Gustav Seldan Esq.

104 Coereck St. City

Dear Sir:-

Referring to your favor of the 6th. Please proceed with work on "G" dynamos. Our contract is to supply the dynamos and the Isolated Company supply the engine. The supply us with 1412 X 13 engine consequently we propose using same.

Yours Truly.

Edison Mach. Works.

By.



March 7th. 84.

A. Stuart, Esq.
Soc'y. Cincinnati, Ohio.

Dear Sir:-

We have your favor of 3rd inst in relation to Tiffin. With respect to the stack. We have not yet heard from our Mr. Rich about it. Will you therefore please excuse us until we hear from him.

As to the Brushes; the matter involved is such a small one that we have ordered new Brushes to be sent there..

With relation to the Equalizers; those will be put up immediately they are finished. Besides these, new pressure indicators will be put up. You misunderstand us with relation to anything to take the place of these Equalizers. What we intend to do is to supply the Equalizers, and to put in new Pressure Indicators in place of those now at Tiffin.

As previously stated, the Garboy will be allowed for when we come to settle with the Tiffin Co..

With relation to the roof. We fully recognize the mistake in covering the roof with material which requires good weather in order to enable us to finish our work. Next Winter we hope to act differently. In the meantime, we must ask the Tiffin Co. to bear with us until we can fix the roof.

The gutter and water-spout shall be attended to immediately.

With respect to the wiring at Tiffin; we will make an allowance on this point when settling with the Company. We presume this will satisfy you.

As regards Lamp breakage, We do not think Mr. Conant would wish to tell us anything but the exact truth about the Lamps, but it is quite possible he may have been mistaken. Our main information however, as regards Lamp breakage has been obtained from our Mr. Boyes who is now in Tiffin. We have a letter from him this morning, stating that his previous statement to us was too favorable. He is now getting up another, which will be forwarded to us as soon as finished.

We wish it clearly understood that we are always anxious to get at the bottom of all troubles of this kind and to rectify them.

You are entirely in error in stating that the lamps are guaranteed for 600 hours. We have never guaranteed them, The Lamp Company have never guaranteed them, and as to the Edison Electric Light Co. we must refer you to them on this point. But we do not

2.

think they have guaranteed lamps.

With relation to the supplies for thirty days. You are in error in stating that the contract calls upon us to run the Station for thirty days after the Plant has started running. All we undertake to do is to supply experts to teach the local men how to run the Station, and we charge for 30 days time of said expert assistants.

I do not doubt but that these various matters can be adjusted both to our satisfaction, and to the satisfaction of the Local Co., and it is the intention of the writer to visit Tiffin with a view to settling these matters satisfactorily, that is, if such a visit is necessary.

We are much obliged to you for your suggestions about Mr. Rich. We will try and do better in the future.

We hope that in all cases you will lay your complaints before us as fairly and candidly as you have in this case, as such a course is far more preferable than continual dissatisfaction after we have left our work, finished as we suppose from hearing nothing to the contrary from the local people.

Yours truly,

Thos. A. Edison, Const. Dept.

By



March 7th. 24.

A. Stuart Esq.

Sec. Cincinnati Ohio.

Dear Sir:-

Referring to Circleville estimate sent you to day. We will send you estimate of what it will cost to increase this plant to 1000 lights immediately we get data prepared which will probably be in the course of a day or so.

Yours Truly.

Thos. A. Edison Constn. Dep't.

By. 

March 7th, 84.

A. Stuart, Esq.

Soc'y. Cincinnati, Ohio.

Dear Sir:-

Referring to your favor of 4th inst, asking on what terms we would rent sufficient capacity to furnish 3000 lights.

I beg to say that I have referred your letter to the Edison Co. for Isolated Lighting as we have no "H" machines in stock just now, whereas they have, and we think under the circumstances they can offer you better terms than we can.

Yours truly,

Thos. A. Edison, Const. Dept.

By



March 8th. 04.

W. H. Lorr Esq.

Treas. Edison Elec. Ill. Co. Lawrence Mass.

Dear Sir:-

Enclosed we beg to hand you statement of your account to Pub. Ist. The amount of this account \$7,328.23 as we believe matured and we should like very much to have you send us as early as possible your check for as large a portion of it as it is convenient for you to meet at the present time, as at this writing we are in need of funds. Some portions of this account are explained by detailed bills annexed, and all other portions of the account have been billed to you before.

Yours Truly.

Thos. A. Edison Constr. Dept.

By. 

March 13th, 1914.

Francis. R. Upton, Esq.

Edison Lamp Co. East Newark, N. J.

Dear Sir:-

We shall start Newburgh Station in the course of a week or ten days, and it will be the first out of town Station in which we have everything complete; that is, good pressure indicators feeder regulators, lamps and motors in proper shape, and all appliances necessary as far as we can see for the proper running of the Station.

Would it not be a good idea to have one of your experts out there at the starting of the Station to keep a careful record of the life of the lamps, and let us try and get at rest those various complaints which we get from our outside Stations continually. If the Newburgh Station runs all right, and the life of the lamps is good, it will simply show that we need all those extra appliances in all the other Stations in order to run matters satisfactorily.

Please let me have your views on this subject and oblige,

Yours truly,



March 8th. 94.

W. H. Bollinger Esq.

New Orleans La.

Dear Sir:-

We are in receipt of your letter of the 4th inst. stating that you do not understand our communication of Feb. 27th. In this letter we simply informed you that before we received your correspondence under date Feb. 5th we had decided that the lot on Custom House St. was the best ~~lot~~ for the Central Station. It is a much more desirable point to locate than any of the others submitted to us, and our estimates are prepared upon the assumption that this lot will be used. *By your Co*

Yours Truly.

Thos. A. Edison Constn. Dept.

By.

March 6th. 04.

F. S. Hastings Esq.

Treas. Edison Elec. Light. Co. City.

Dear Sir:-

Will you be kind enough to communicate with your Pennsylvania agents and try and obtain for us a map of Union City. When our canvasser was there he found it impossible to procure a chart, but probably somebody working in your interests in that part of the country may be more successful, and we shall be very much obliged if you will make the attempt and advise us of the result at your convenience.

Yours Truly.

Thos. A. Edison Constn. Dept.

By.



March 8th. 84.

Arthur S. Bevis Esq.

c o Edison Elec. Ill. Co. Tiffin Ohio.

Dear Sir:-

We are in receipt of your letter of the 6th inst, and regret to learn the trouble you have had in connection with the armature of the "A" dynamo. We endorse the course you pursued in the premises, and we expressed yesterday a new armature to be used in place of the defective one. Please send the latter to the Edison Machine Works 104 Goerck St at once for repairs, and have the new one placed in service immediately it arrives.

We note your remarks in reference to the number of lamps in circuit, and shall be glad to receive from you a report as to the lamp breakage, and a summary of the bills to consumers for February consumption.

Yours Truly.

Thos. A. Edison Constn. Dept.

By.



March 10th. 04.

J. F. Kirby Esq.

c/o Edison Elec. Ill. Co. Middletown Ohio.

Dear Sir:-

We are in receipt of your letter of the 5th inst in reference to the progress of the work at Middletown. We have requested Messrs. Bergmann & Co. to send you one of their catalogues with supplements to date as we ourselves have none on hand.

We also have your letter of the 7th inst in relation to rendering your expense account. We do not require you to render an expense sheet embodying the time chargeable to each Central Station. These ~~expense~~ accounts should be sent in according to the foot note on the bottom of the sheet, and on the back of them you should charge out your time against each Central Station in the column provided for that purpose. We have written Bergmann & Co to hurry forward the material ordered by Mr. Wagner.

Yours Truly,

Thos. A. Edison Constn. Dept.

By.



March 10th. 84.

Chas. P. Iyon Esq.

Baker House Lewisburgh Penna.

Dear Sir:-

Replying to your letter of the 6th inst in regard to canvassing churches we beg to say that in future you can classify them after the manner of dwellings, entering them upon your report as 1st, 2nd, and 3rd class. It is unnecessary to make an inspection of the interior of these structures.

Enclosed we beg to hand you our check No ⁴²⁶ for $23\frac{1}{2}$ in full of your account to the 1st inst.

Yours Truly.

Thos. A. Edison Constn. Dept.

By. 

March. 10th. 84.

S. Edison Esq.

Fort Gratiot St. Clair Co. Mich.

My Dear Mr. Edison:-

I have received a letter addressed to Mr. Thos. A. Edison by Mr. Symington, and regret to say that the former is at present absent in Florida, and is not expected to be in New York for two or three weeks. Just as soon as he arrives the communication will be handed to him for action.

I trust the cold weather you have had in Michigan has not interfered with your health. With kind regards believe me to be.

Yours Very Truly

A handwritten signature in cursive script, appearing to read "J. B. Rose". The signature is written in dark ink and is positioned below the typed text "Yours Very Truly".

March 10th, 194.

Major Eaton:-

There is no work at all be carried on at Menlo Park. All experiments are being conducted at Avenue "B". I believe that part of the pressure indicator experiments have been conducted at the Jump Factory, because there are facilities there in the way of instruments and current which we have not, and which would require some fixing up to get, at Avenue "B".

If you want any further information, I shall be happy to supply it.

S. Insull.

Per McC.

March 10th. 84.

Major Eaton:-

I return herewith Mr. Borden's letter.

I have been looking for the objections to our contract, and all I find is a statement that the terms are not satisfactory, and a lead pencil mark in Mr. Borden's handwriting, "No sir?" after two paragraphs.

It is pretty difficult to know how to discuss a matter when the objections made are so vague. However, I will go into the matter to-morrow, and let you know what I say to Mr. Borden in relation thereto.

S. Insull,
per McC.

S. B. Eaton Esq:-

March 10

Enclosed I beg to hand you a tabulated statement of estimates prepared by us during the months of January and February and the first seven days of the present month. You will notice that dating from the 8th Feb. a large increase in the output has taken place. We have completed and sent out 16 estimates in about 27 working days, which is an average of over one every two days. We hope to continue at the same rate right along provided we are not delayed for information in regard to real estate which the Light Company is endeavoring to obtain for us at the present time in connection with the number of towns in Pennsylvania.

~~A. C. [unclear]~~

BY: H. 

March 10th. 1884.

March 10th, 04.

Mr. Hastings:-

Referring to annexed contract,

The capacity of the dynamos will have to be stated in amperes at specified volts. I will find out what this should be and advise you later.

With relation to paragraph 3,

I have struck out all in the paragraph that comes after the word "Contractor". All old material according to the estimate is to be the property of the contractor. What you put in entirely alters the meaning of this sentence. There is no necessity whatever to refer to it in the agreement at all. There can be no question as to what material is meant, as it is a phrase used every day to describe old material in a building altered by a contractor. If we left it to the option of the Company's Supt, we should get nothing at all in all probability, as he would do the same in the matter as we would, namely, sell it, or we might use it in our business elsewhere. Our estimate is made on the basis of our getting this material, and I therefore wish the third paragraph cut out.

With relation to the terms of payment,

I think it nothing but fair that half of the amount of \$3291.54 should be paid us on completion of the work, and that the other half should remain over until 30 days after the completion of the work. The amount of \$23,000, to be credited to Mr. Edison on account of subscriptions to capital stock of the Illuminating Co., can remain over until 30 days after the completion of the work.

Saml Insull.
Per McC.

March 10th. 84.

P. S. Hastings Esq.

Treas. Edison Elec. Light Co. City.

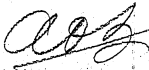
Dear Sir:-

Under separate cover we send you chart of Lancaster Pa. showing the location of the lot submitted to us for use for Central Station purposes, the size of this lot being 32 X 75 feet. In view of this size being inadequate to meet the requirements of the plant necessary to be installed at Lancaster we wish you would kindly obtain for us information as to other available real estate. Were we to use the present ground it would be necessary to place the dynamos up stairs and drive them by belts from below, and this arrangement we consider it advisable to avoid owing to the inconvenient operation of such an installation.

In order to affect a good and efficient arrangement of plant it will be necessary to obtain a lot at least 45 X 70 feet, situated on a corner, and if in the center of a block the dimensions should be not less than 50 X 70 feet. In regard to this matter we shall be glad to hear from you at your earliest convenience.

Yours Truly,

Thos. A. Edison Constn. Dept.



March 10th, 1884.

Messrs Drexel, Morgan & Co.

New York.

Dear Sirs:-

Referring to your recent correspondence with relation to Edison's Indian & Colonial Electric Co.

I beg to inform you that I fully approve of the cable you sent to Col. Gouraud, with relation to the reduction of ~~the~~ ^{our} number of "A" shares, in case he should find it necessary to make some concession in connection with his present negotiations for the reduction of the Capital Stock of the Company above referred to.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'AD' or similar, written in a cursive style.

March 10th. 04.

Theo. Andrews Esq.

Sec. Armington & Sims Co. Providence R. I.

Dear Sir:-

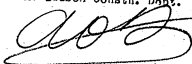
We are in receipt of your letter of the 8th inst in reference to paper templat of bed for 11 X 14 engine. These have not yet come to hand, but when they arrive one of them will be handed to Mr. Sheffler of the Isolated Co. as requested.

We hope you will have the drawings ready for us at an early date as we are holding several estimates that cannot be completed until this data from you is received.

Yours Truly.

Thos. A. Edison Constn. Dept.

By.



March 10th. 84.

Thos. Andrews Esq.

Sec. Armington & Sims Co. Providence R. I.

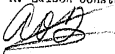
Dear Sir:-

Since dictating our former letter ~~of~~ day's date we
beg to say that the templates of the 11 X 14 engine have come to
hand, and one handed to Mr. Sheffler.

Yours Truly,

Thos. A. Edison Constn. Dept.

By.



March 10th. 04.

Henry A. Clarke Esq.

5 Moon Building Baltimore Md.

Dear Sir:-

We are in receipt of your letter of the 9th inst in reference to Harrisburgh Estimates, and in reply beg to say that they will be sent to you on Thursday as promised.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



March 10th. 84.

My Dear Romenyi:-

Many thanks for your letter of the 6th inst enclosing check for \$150-⁰⁰ in payment of your note, which I send under same cover. In this world of wickedness and procrastination your punctuality is really refreshing.

Replying to your postscript I beg to say, Edison n'es pas encore des rotour. Recevez, cher maitre, l'assurance de ma haute consideration.

u Yours Very Truly.

E. Romenyi Esq.

Pittsburgh Penna.



March 10th, 184.

A. Stuart, Esq.

Soc'y. Cincinnati, Ohio.

Dear Sir:-

I have your favor of 7th inst.

What ~~me~~ was annoyed at in connection with the Liqua contract was, that you should have written to Major Eaton, stating that it was impossible to get us to do anything unless you complained to him.

This was a reflection on this office, which I do not think justifiable.

I fully appreciate the trouble you have been put to in the matter, and very much regret it. There is no doubt that our people here were in fault in not advising you that we were discussing a change in the contract. What their excuse is, I do not know, as I was the little distance of 3000 miles away from here at the time the facts referred to occurred.

My only reason for not signing the contract, was, that the gentleman who had charge of my work while I was in Europe was absent from the office, and there was no one here who in my

opinion was competent to exactly express Mr Edison's views in relation to the matter, and it was his business I had to deal with. If it had been my own, I could have decided the matter more promptly.

Mr Tomlinson simply acts in the capacity of legal advisor to Mr. Edison.

I note your remarks about the Construction Dept becoming remarkably sensitive on its contract business. The reason is, that the Construction Dept is gaining experience in running its business, and find that in making a contract with a subscription list they must be careful to protect themselves, although of course, in the case in question, the contract was made with the Ohio Installation Co. which is a very different thing to making a contract with the Local Illuminating Co. of Piqua. When I remembered this fact, I signed the contract before getting the advice I desired in the matter from Mr. Tate, and I sent it on to you on the 5th inst.

With relation to your remark, that "we probably fear that you will take undue advantage of us" I can assure you we have no such feeling towards your Company, and I can scarcely believe that you have any idea that we entertain any such feeling. In fact our idea on this matter are in accord with yours, except that "speaking of it in cold type as a matter of business" we hardly think that we should receive the criticism of being unbusinesslike.

and not straightforward..

We thoroughly reciprocate your ideas about our interests being mutual, and it is our desire that you should always hold this view, as the last thing we would do would be to take any course which would lead you to think otherwise. If we had thought that you would take the matter in the light that you have, we would have signed the contract when it was first sent on, and have run the risk of incurring an obligation which I myself know nothing about.

Yours very truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke, positioned below the closing text.

March 10th, 04.

G. C. Sims, Esq.

Supt. Providence, R. I.

Dear Sir:-

We have your favor of 4th inst.

We are very sorry that you should have found the engine at Shamokin in such a bad shape. If you will advise us as to the cost of putting it in order, we will credit you with the amount.

Mr. Lyon is at present at work at Goerck St. We will send him to Newbur when he is through.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 10th. 84.

J. H. Salmon Esq.

1 Green St. Cambridgeport Mass.

Dear Sir:-

I am in receipt of your letter of the 7th inst in reference to replacing an electric light on a fire engine, and in reply beg to say that at the present time I do not consider it feasible.

Yours Truly,



March 10th. 04.

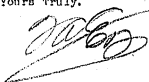
Jamael W. Serrall Esq.

Horse Building 140 Nassau St. City.

Dear Sir:-

Replying to your letter of the 4th inst in relation to the Type Writer patents and fee due thereon, I beg to enclose herewith check for \$20- which I believe is the amount that should be paid in order to secure the issue of the patent. If this sum is incorrect I will rectify it upon being so notified by you.

Yours Truly,

A handwritten signature in dark ink, appearing to be 'J. W. Serrall', written in a cursive style with a long horizontal flourish underneath.

March 10th. 04.

A. Stuart Esq.

Sec. Ohio Edison Elec. Installation Co.

Cincinnati Ohio.

Dear Sir:-

We are in receipt of your letter of the 6th inst. in reference to the location of Circleville lot. We to day received a communication from Mr. C. B. Story enclosing a sketch showing the exact location of this real estate, and which is in accordance with the description of the site embodied in the contract we mailed some days ago.

In relation to the Piqua contract. It was mailed on the same date as you wrote the communication we are now dealing with.

Yours Truly.

Thos. A. Edison Constn. Dept.

By. 

March 10th. 94.

C. B. Story Esq.

Circleville Ohio.

Dear Sir:-

Thanks for your letter of the 7th inst, enclosing
sketch showing the location of the lot to be used for Central
Station purposes at Circleville. The description embodied in the
contracts were sent forward to Mr. Stuart in accordance with this
sketch.

Yours Truly.

Thos. A. Edison Constr. Dept.

By.



October 24.

Messrs. Borgmann & Co.

202 Ave. B. City.

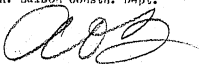
Dear Sir:-

We are in receipt of a letter from Mr. J. P. Kirby one of our wiring experts in which he states that Messrs. Wagner & Co of Middletown who are to take charge of the wiring business for the local Company, ordered from you some cleats for paragon wire and some main and branch cut outs. This material has not yet been received. It is urgently required, and we ~~hope~~ you would forward it quickly.

Yours Truly.

Thos. A. Edison Constn. Dept.

By.



March 10th. 1904.

A. Stuart Esq.

Soc. Ohio Edison Elec. Installation Co.

Cincinnati Ohio.

Dear Sir:-

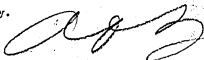
We are in receipt of your letter of the 8th inst acknowledging reception of the Piqua contract, and endorsing the correctness of the change made by us in the 5th clause of same.

Joining you in the hope that we will proceed without any more Piqua's we beg to remain.

Yours Truly,

Thos. A. Edison Constr. Dept.

By.



March 10th. 84.

Thos. Spencer Esq.

c o Edison Elec. Ill. Co. Hazleton Penna.

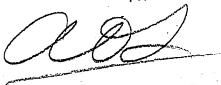
Dear Sir:-

We are in receipt of your letter giving resume of the Hazleton business under date Feb. 5th, which we presume should have been March 5th. We are obliged for your report, and if you have any further information to impart we shall be glad to receive it.

Yours Truly.

Thos. A. Edison-Constn. Dept.

By.

A handwritten signature in dark ink, appearing to be 'T. A. Edison', written over a horizontal line.

March 10th, 64.

My dear Gardiner:-

Yours of 4th inst came duly to hand.

When you have seen Gov Howard in relation to the matter
of ~~license~~ ^{consent}, I shall be happy to hear from you again.

Licenses as a rule are made for the life of the patent,
and not for a given period of years.

Yours very truly,



Gardiner, C. Sims, Esq

Providence, R. I.

March 10th. 64.

My dear Gardiner:-

Yours of 7th to hand.

I am awfully sorry that you are sick again. In fact you seem to be sick all the time.

I have got fixed up in my new "diggins", and when you come to New York again, I can "sleep" you in royal style; that is, if you do not want to talk business to me about three parts of the night.

Why not come on for a day or two? I will nurse you like a Mother. In fact all you want I think is some good Dolmanico grub to put you in right shape.

Yours very truly,



Gardiner. C. Sims. Esq.

Providence. R. I.

THOMAS A. EDISON,
Central Station, Construction Dept.,
No. 65 FIFTH AVENUE,

Form L. 000-55-94

New York, March 11th. 84. 188

Dear Sir:-

Referring to a request which we made of you some time ago, to the effect that you should obtain as much information as possible in the town you canvass, in regard to real estate.

When submitting this data to us, will you be kind enough to give the exact location of lots, embodied in as complete a description as it is possible for you to frame. It is necessary that care should be taken to report the exact size of each lot, and these sizes should be taken by actual measurement.

Yours truly,

Thos. A. Edison Constr. Dept.

By.

*Copy sent to all
Canvassers*

3.
March 11th. 84.

My dear Edison:-

Yours of 8th inst came to hand this morning.

The question of the capacity of our Stations, I leave for discussion until you get home.

I am paying particular attention to the various suggestions you make.

I keep pushing Eaton and Hastings with relation to the various estimates we are getting out.

Shaw is still away at the Arkansas Hot Springs, and Young Detwiler is going around Pennsylvania ^{slay} ~~pushing~~ pushing us as much as he can. This I do not wonder at, considering the ill-advised (excuse the term) attempt to prove Shaw a liar when he was down here. It cannot but do us harm, and cannot do us any good whatever the facts may be.

Auburn I hardly think will go through. Mr Garrison's friend, Mr Osborne, is talking Storage Battery, and we must let him get over that before we do anything.

Louisville is under water, and Hix says nothing can be done until the water goes down.

Haverstraw, Hudson and other Hudson towns are waiting for Nowburg to start, which will take place before you return.

I have written Soldan about the things you speak of.


I would strongly advise you to stay away as long as you possibly can. There is no reason, from a business point of view why you should come home, and there is every reason from the point of view of your health, why you should stay away, the main one being that we are having cold weather here just now, and I am afraid if you come back, you will catch a sever cold, as you did two years ago. You should rather follow the warm weather up North, and if you get back by the 1st of April, you will be safe against any trouble so far as cold weather is concerned. I do not say this because I do not want you to come home, as I am just as anxious to see you as you are to get back to business.

Nothing of very great importance has occurred lately. We have not any more contracts, but are getting out lots of estimates, and we shall get contracts shortly.

I think we shall also get the Demarara business. We are now awaiting advise from there, the cable being broken.

I think I shall try and pull the Bollofongo business through until you return, as it is a matter you dealt with, and I hardly like to take it up myself, and decide what to do, in as much as my views are not in accord with yours, and I think we should thrash the matter out before anything is done. I believe we shall have to put in an 11 X 14 engine, - a new size now being made.

Yours very truly,



Major Eaton:-

Mar. 11

Referring to your memo of the 10th inst, as to the experimental accounts.

I hand you herewith statement showing you the disbursements of labor account as requested.

The automatic regulator experiments are carried on at Avenue B..

Just before Mr. Edison left he gave instructions for certain experiments to be made, with a view to adapting the principle we use in the new pressure indicators for small town plants to the requirements of the isolated business, the idea being to get a more reliable automatic regulator for isolated purposes.

The carbon experiments referred to have been carried on for a very long time. I imagine that this week the work has been mainly upon some new fibre, which Mr. Edison has sent up from Florida.

The gas bill is for the laboratory at Bergmann's, gas being mainly used for heating purposes in carbon and other experiments.

I hope the above explanation will be satisfactory.

Saml. Insull

By. H.

March 11th. 1884.

March 11th, 84.

Mr. Hastings:-

It would be far more convenient to render accounts once a month with relation to the making of estimates. It would entail upon us a great deal more work if we rendered an account with each estimate, and it would also delay the sending of the estimates to you.

S. Inshall,
per Mes.

March 11th. 84.

W. Preston Hix Esq.

333 West Main St. Louisville Ky.

Dear Sir:-

We send you herewith estimates, specifications of building, and of street installation, charts of district, plans of building, and contracts for the installation of Edison Elec. Light Central Station Plants as requested for Louisville Ky, the said estimates amount to viz:- 3200 - 10 C. P. = \$84,828.90, and 4800-10 C. P. = \$116,704.01.

These estimates are based on the present value of labor and wages, and we hold ourselves in readiness to close either of them on the terms stated at any time within 60 days from the date hereof, but not after.

The local Company in executing the contract for the installation of either plant should be careful to comply with the laws of the State of Kentucky.

A meeting of the Board of Directors should be called and a resolution passed directing the officers named therein (usually the President and Treasurer) to sign the contract on behalf of the Corporation and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and

"2"

administer oaths; and in the acknowledgement should be incorporated an affidavit by the officers that they have signed the contract and affixed to it the corporate seal, in and by virtue of a resolution of the Board of Directors authorizing them so to do; the form of acknowledgement to be such as the laws of the State of Kentucky require.

The acknowledgement should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company, we will return a duplicate signed.

Yours truly,

Thos. A. Edison Constr. Dept.

By.



March 11th, 04.

H. M. Doubleday, Esq.
Shamokin, Pa.

Dear Sir:-

We have your favor of 8th inst, and are much obliged for the information as to charges in account.

In order to run all day, we think it would be necessary for the Shamokin Co. to have two small machines in place of the "H" machine now used, as spare. You might talk to them about this matter, but have it clearly understood that if such an alteration takes place, they will have to pay for it.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

Nov 11th. 04.

Spencer Borden. Esq.

Fall River, Mass.

Dear Sir:-

Major Eaton has handed to us the Portland contract, with the notes on the margin stating that the terms are not suitable, and your further remark against two clauses, simply stating, "No sir!".

It is very difficult for us to know what terms to propose when the objections taken are of such a broad character, but we will write you our views in relation to the matter either tomorrow or next day.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 11th, 04.

Messrs Markle Bros.
Hazleton, Pa.

Dear Sirs:-

Referring to our letter stating that Mr Insull would visit Hazleton.

We regret to inform you that he was compelled to return to New York direct from Mount Carmel, owing to his having taken suddenly sick. He hopes however to be in Hazleton some time next week, or the week following, when he will have the pleasure of calling on you.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

March 11th. 84.

Messrs. Markle & Hall.

153 Griswold St. Detroit Mich.

Dear Sirs:-

We are in receipt of your letter of the 6th inst, in reference to the Hillsdale estimate.

The delay which has taken place in connection with producing these figures has been occasioned by the fact of our having had to wait for certain information in regard to the engines being supplied us by the Armington & Sims Engine Co.

We are pushing this data to completion with all possible despatch.

Yours truly.

Thos. A. Edison Constr. Dept.

By.



March 11th. 84.

Friend Spiers:-

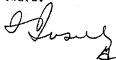
Will you please send up to me, Henry George's work on "Poverty and Progress", and also his work on "Social Problems".

Will you let me know what I can get an edition of Edmund Burke's works for, and how many volumes? and also what I can get Washington Irving's works for, and how many volumes?.

I am not buying the binding, but the contents, but still of course I want the binding to be decent.

Very Truly Yours.

~~C. E. Spiers~~ Van-Hou rand



March 11th. 04.

Gustav Soldan, Esq.

Wash. City.

Dear Sir:-

I have a letter from Mr. Edison, in which the following occurs:-

"Tell Soldan there seems to be some complaint about the oil running through the commutator. I think the space should be filled up, as the little air that gets through does not do it any good. I also think that on 200 and 300 light machines, the cores should be half an inch greater diameter so that we may get more volts out of the machines."

Yours truly,



March 11th. 84.

Geo. W. Wilber Esq.

Arlington House Covington Ky.

Dear Sir:-

We are in receipt of your letter of the 8th inst, in reference to the map of Paducah.

We received your letter stating that you would write the City Engineer of that place, and our telegram of the 8th was sent for the reason that no map had been received up to that date, and we urgently need one.

We have written the City Engineer explaining the matter to him, and trust he will be able to accomodate us. If this channel fails, we will as you suggest address a communication to Mr. Chas Road.

Yours truly

Thos. A. Edison Constn. Dept.

By.



March 12th. 84.

S. B. Eaton Esq.

pres. Edison Elec. Light Co. City.

Dear Sir:-

The other day you were kind enough to promise me a letter, which would enable our canvasser Mr. Dyer to visit the Harmonic, Knickerbocker, and New York Clubs.

Might I ask you to give Mr. Dyer this letter now, as he wishes to visit those places this afternoon.

Yours truly,

as2

March 12th. 04.

A. S. Kissell Esq.

2413 Prairie Avenue. Chicago Ill.

Dear Sir:-

Your favor of the 10th inst came to hand to day.

The reason the overhead wires of the mains are more expensive per lamp, than in the case of the underground ones at Brockton is, ^{the cost of} ~~the cost of~~ the conductors entirely depends upon the location of the lights, whether they are spread over a large area, or confined to a contracted one; in fact it is a question of, how many lamps there are to a given length of conductors. Take for instance New York City. In our uptown district, which we propose lighting, there are a great number of lights. The underground system will be very costly, but in all probability when taken on the basis of so much per light, it will be one of the cheapest installations that we will make.

The reason for this is, that there are so many lights to a foot of conductor in New York as compared with other places. If you do not understand what we mean, we will be glad to write you further in relation to this matter.

We will try and comply with your request, to send you several copies of the Knoxville estimates, but we are so rushed that it may be impossible to do so.

1000 light estimate for Knoxville, but we will
also have a 500 light estimate made for you, which will be forward-
ed a few days after the former.

We are hoping to send an estimate to you about Monday or
Tuesday next.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



March 12th. 84

J. Ward Leonard Esq.

c/o Edison Elec. Ill. Co. Rt. Carmel Penna.

Dear Sir:-

We are obliged to you for your favor of the 10th inst, giving formal report that you think would be suitable for us to receive from our experts in charge of the different stations.

We will probably enter into a criticism about this matter later, and shall doubtless require your views further in the matter.

Yours truly,

Thos. A. Edison Constr. Dept.

By.

John S. Swasey

March 12th. 04.

Messrs. Marble & Hall.

133 Griswold St. Detroit Mich.

Dear Sirs:-

Many thanks for your letter of the 10th inst, in reference to various towns in which you are organizing Companies.

In regard to Hillsdale estimate, we beg to say that we will forward it on Friday.

We have been awaiting information from Messrs. Armington & Sims in regard to a new engine they are building, which is 11 $\frac{1}{2}$ x 14 and which we desire to supply in connection with the 300 light ~~plant~~ plant we propose installing at Hillsdale.

On Friday we will send you all the data with the exception of the plan of the interior arrangement of the station. This we are unable to give, as the drawings of the above engine, which Messrs. Armington & Sims are to send us have not yet arrived. Just as soon as they do, we will forward you a plan showing our proposed arrangement of the interior of the station.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



March 12th. 84.

W. D. Rich Esq.

Piqua Ohio.

Dear Sir:-

We are in receipt of your letter of the 6th inst.

In regard to requisitions we beg to say that we would like you to use your book provided for that purpose, to as great an extent as possible. We think that even where you are unable to specify the quantity of material you require, it would be practicable to send a requisition to this office, and thereby keep our files complete.

In regard to sending in bills. We are getting out a form for this purpose which will simplify matters, and enable you to tell at a glance just what bills you have forwarded to this office, and we will be able to do the same thing.

Our intention is to give you a receipt for all accounts received from you, and thereby end all controversy as to whether any bill has or has not been submitted by you.

We believe you are supplied with ^{new} proper forms for the proper rendering of your personal expense accounts, but these you have never used. We will forward you another supply, and wish you would kindly place them in service as we desire to avoid having to file your letters as vouchers, for the reason that they generally

embody other matters which should be placed on record amongst our
correspondence.

Yours truly.

Thos. A. Edison Constn. Dept.

By.



March 12th. 04.

A. Stuart Esq.

Soc. Ohio Edison Elec. Installation Co.
Cincinnati Ohio.

Dear Sir:-

We are in receipt of your letter of the 10th inst, in reference to the "Cincinnati Block".

If you will give us the information in reference to the location of the Central Station, dimensions of the room where it is proposed to put the machinery, situation of machinery boilers etc, and show means of access and egress, also the location of any pillars there may be in the room, and inform us as to the kinds of floor, ceiling and walls, it will, in connection with our canvassers report be sufficient for us to prepare an estimate.

Yours truly,

Thos. A. Edison Constrn. Dept.

By. 

March 13th, 64.

C. E. Spiers, Esq.

Co. Van Nostrand, 23 Murray St. New York.

Dear Sir:-

Can you get me a volume of Bright's and Cobden's speeches. They are published in England in two volumes. Also the "Times Year Book" published by the "London Times", for 1862 and 1863.

I also want a volume of Daniel O'Connell, the Irish agitator's speeches.

Do not think I am turning a Dynamiter.

Yours truly,

Wm. D. Sullivan

March 13th. 04.

A. Stuart Esq.

Sec. Ohio Edison Elec. Installation Co.

Cincinnati Ohio.

Dear Sir:-

We are in receipt of your letter of the 10th inst enclosing Circleville contracts for correction, as for terms of payment.

When sending this contract to you, we substituted the new terms, as the writer was not aware of the arrangements you had made with Mr. Edison during his absence, and supposed the terms required of the local Companies would also be required of the Installation Co. We have however corrected the contracts in accordance with your request, this new arrangement being perfectly satisfactory to us when we are dealing with your Company.

In regard to the letter we wrote with the contract. It is a form which we always use when sending our contracts to the local Companies.

If the contract for Circleville is signed in the same manner as the Piqua one, it will be perfectly satisfactory to us, and in future all our contracts with the Installation Co. will be gotten up ^{after} for the manner of a Piqua document.

Yours truly,
Circuit Dept. David Josul

March 13, 84.

Western Edison Light Co.
Chicago Ill.

Dear Sirs:-


Referring to your letter of the 10th inst with relation to the iron cap pieces connecting the two field magnets of the 800 light dynamo.

We regret to state that this is a matter which we cannot deal with in Mr. Edison's absence. We will draw his attention to it however immediately on his return, and get him to write you.

Yours truly,

Edison Mach. Works.

By.



New York, March 13th, 1884.

Dear Glass:-

Your favor of the 2nd inst came duly to hand, and also the midget, for which accept my thanks. Doubtless the black sand will also arrive in due time.

Mr. Edison is away just now. When he comes back I will tell him about his namesake.

If the samples that Major Frank takes out to you are ~~not just~~ ^{just} what you want, let me know and I will send out some more.

Your kind invitation to Cherokee shall be availed of as soon as I can get from Saturday to Monday, so as to be able to make the short run out to you. I have never been West, and I think that you have lots of sights which would please a "blasted degenerated Britisher".

You entirely mistake the tendency and bent of the writer's weaknesses if you imagine that I am fond of the glitter and blaze of the harlot palaces of Europe, on the contrary while on the other side he confined his sight seeing to orange groves, gambling houses and churches, and a picture gallery here and there in order to relieve the monotony. ~~In fact his~~ ^{My dissipation} ~~is~~ ^{is a} ~~very~~ ^{very} ~~is a~~ ^{is a} diluted form indeed, such as fancy dress balls in Paris, polyglot society houses in Milan, and dirty, dingy, and buggy bod houses in London. Any one who has seen so little should certainly be called

christian.

I am going into sackcloth and ashes in consequence of the very low estimate you have of my character.

If Major F. should want to lead you off from the path of rectitude, do not allow his seductive persuasion to have any effect on you. Bad men should be avoided.

With kind regards, and hoping that you can do some Electric Light business out West so as to enable me to make a trip to the famous Butte County, believe me very sincerely yours.

Louis Glass Esq.

c/o Spring Valley Hydraulic Gold Co.

Cherokee Butte Co. Cal.

March 13th. 84.

H. A. Clark, Esq.
Harrisburg, Pa.

Dear Sir:-

We send you herewith estimate, specification of building, specification of Street installation, charge of district, plan of building, and contract for the installation of an Edison Electric Light Plant of 3200 lamps capacity at Harrisburg, Pa. the said estimate amounting to \$52,570.20.

This estimate is based on the present value of labor and wages, and we hold ourselves in readiness to close it on the terms stated at any time within 60 days from the date hereof, but not after.

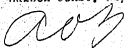
The Local Company in executing the contract for the installation of the Plant should be careful to comply with the laws of the state of Pennsylvania. A meeting of the Board of Directors should be called, and a resolution passed directing the officers named therein (usually the President and Treasurer) to sign the contract on behalf of the Corporation, and affix thereto the corporate seal. Care should also be taken to have the Officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and administer oaths, and in the acknowledgement should be incorporated an affidavit by the officers that they have signed the contract and affixed to it the corporate seal in and by virtue of a resolution of the Board of Directors authorizing them so to do; the form of acknowledgement to be such as the laws of the state of Pennsylvania require. The acknowledgement should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company, we will return a duplicate signed.

Yours truly,
Thos. A. Edison Const. Dept.

By



March 13th, 04.

C. E. Chinnock Esq.

City.

Dear Sir:-

Referring to our recent conversation with you in relation to your carrying a commutator and one set of bottom mica at the station, in case of an emergency.

We beg to advise you that we shall be glad to supply you with a commutator for \$375-, and with a set of bottom mica for \$170-.

For your information I may state that we base these figures on the most recent prices.

Yours truly,

A handwritten signature in dark ink, consisting of a stylized, cursive name that appears to be 'J. D. ...'.

March 13th, 84.

H. H. Doubleday Esq.

Shamokin Penna.

Dear Sir:-

Referring to your letter of the 10th inst.

Will you please render a statement to us so that we can get at the actual running expenses of the station for any given time.

The fact of your not being able to supply us with coal makes the remainder of your figures ~~unavailable~~. Cannot you by some means or other get at the coal expenses, Mr. Dooty surely can supply you with that information.

Yours truly.

Thos. A. Edison Constn. Dept.

By.



March 13th, 64.

Thos. Pray Esq.

Manufacturers Gazette Boston Mass.

Dear Sir:-

I have your favor of the 12th inst, and much obliged to you for correcting me for naming you James rather than Thomas.

I have received a copy of your paper of March 1st, and have had very great pleasure in reading it. I do not doubt but that it will please Sims very much when he peruses it.

The next time I am in Boston I shall have the pleasure of giving you a call.

If you can find time to call on me when you are here I shall be very pleased to see you.

I have often heard Sims speak of you, and he has promised two or three times to take me to call on you, but he has never done so yet, as when we have been in Boston together we have always been pressed for time.

Yours truly,



Mr. Hastings:-

Referring to your communication of the 14th, asking us to send bills for the cost of the canvass and estimate, at the same time the estimate is furnished you. It would be extremely inconvenient for us to pursue this course. What we would prefer to do would be to render you an account once a month, say from the 7th to the 12th of each month. Will this be satisfactory?

Saml. Insull

By H.

March 13th, 1894.

March 18th, 04.

Messrs. Hather & Platt

Salford Iron Works, Manchester Eng.

Dear Sirs:-

We enclose you duplicate invoices, originals of which we have already sent you amounting to \$134.25. We do this in as much as in your letter of the 29th Feb. you state that you have not received invoices for the machines shipped you.

At the time you bought the machines you refer to, our understanding was that we sold them to you in as much as you wanted to get types of the newest machines that we had turned out here, and our recollection as to payment for same does not coincide with yours, consequently we ask you to allow us to draw on you. We trust that you will send us a remittance in accordance with our former letter in relation to this matter.

Yours truly,

1342.25

March 18th, 84.

Gustav Soldan Esq.

104 Goerck St. City.

Dear Sir:-

Referring to your favor of the 8th inst enclosing a letter from the Edison Elec. Light Co. defining the position of the testing room.

I beg to advise you that I desire to keep this letter until Mr. Edison's return, as I wish to consult him in relation to the matter.

Yours truly,

Edison Mach. Works.

By. 

March 13th, 84.

Gustav Solder Esq.

104 Gearek St. City.

Dear Sir:-

I shall be glad to have an exact report as to the capacity of the improved "C" machines in amperes at given volts.

Yours truly,

Edison Mach. Works.

By.



GUSTAV SOLDER

March 13th, 04.

Gustav Soldan Esq.

104 Goerck St. City.

Dear Sir :-

Referring to that part of your letter of the 10th inst which relates to "G" brush holders. You give me the reason for their not fitting on the 25 light dynamo, namely that the armature has a short commutator, but you do not suggest any remedy for the trouble.

The object of the Western Edison Light Co. in writing to us was to find out a remedy, as you will see from their letter which we again return to you.

Let me know about this matter immediately, and return letter to me with your reply.

Yours truly,

E



March 13th, '84.

Gustav Goldan Esq.

104 Gearek St. City.

Dear Sir:-

I asked you some time ago to figure on making a large supply of brushes for the Central Station. Have you ever done this

Yours truly,

Edison Machine Works.

By.



March 13th, 04.

Western Edison Light Co.
Chicago Ill.

Dear Sirs:-

Referring to your favor of, the 6th inst, with relation
to "Y" dynamo No. 10 having no bearing for the middle jack-screw.

To beg to state that all machines made subsequently
to the stop order, of which "Y" No. 10 formed a part have been
altered so as to comply with the suggestion which you now make.

Yours truly,

Winton Mach. Works.

W. W.



March 13th, 04.

Western Edison Light Co.

Chicago Ill.

Dear Sirs:-

Referring to your favor of the 6th inst, with relation to the testing of a "T" dynamo, which you made in connection with your office plant.

We beg to state that we cannot reply to this until Mr. Edison's return, and must therefore ask you to excuse delay in this connection.

Yours truly,

Edison Mach. Works.

By. 

March 13th, 04.

Western Edison Light Co.

Chicago Ill.

Dear Sirs:-

Referring to your favor of the 5th inst.

Our Superintendent writes us that we usually mark armatures on the pulley end of the shaft, and not on the commutator end. Evidently you must have come across one which had been marked on the commutator end by mistake.

We have asked our Superintendent whether there is any reason why armatures should not be marked on both ends in order that we may try and comply with your wishes in the matter.

We will write you further in this matter as soon as we hear from him again.

Yours truly,

Edison Mach. Works.

By.



Western Edison Light

Edison Mach. Works

March 14th, 84.

H. Ward Leonard Esq.

c o Edison Elec. Ill. Co. Mt. Carmel Penna.

Dear Sir:-

A party of gentlemen who have been visiting the stations in Pennsylvania on behalf of the Edison Elec. Light Co. have returned to-day.

In addition to the reports I have heard from our own men, I have heard what they have got to say with relation to the roof at the station which you have charge of.

Immediately on receipt of their complaints I wired Mr. Rich to have tin roof put on your station. I have not yet had time to get a reply from him, but I shall be glad if you will advise him by telegraph, and thereby have no delay in this work, as it is our desire to have the station, which you have temporary charge of put in order immediately.

Will you please represent our views in this connection to the local parties, and assure them of our earnest wish to make everything entirely satisfactory.

We shall confer further with Major Eaton, and Mr. Upton in relation to the various questions, and will probably write you further in the matter.

Yours truly.

March 14th, 04.

C. E. Chisrock Esq.

Central Station 257 Pearl St. City.

Dear Sir:-

Referring to our recent conversation.

We beg to state that we shall be glad to supply you with brushes such as we are now selling to you at \$2.25, if bought in lots of 500, and at \$2.13 if bought in lots of 1000.

If a lot of 500 was bought we should be willing to make our deliveries extend over a period of two months, and if 1000 were ordered we should be willing to arrange our deliveries to extend over a period of three months.

Yours truly,

Thos. A. Edison Constn. Dept.

By. 

By:

March 14th, 1904.

Mr. Andrews:-

Massey

Will you please read the annexed, which relates to
a complaint of Mr. Leonard's that the oil runs around the commu-
nicator on our machines. I would like to have your comments on this.

Saml. Insull

By: H.

March 14th, 1904.

W. H. Harrison:-

March 14th, 04.

Messrs. Arrington & Sims Co.

Providence R. I.

Dear Sir:-

We wired you yesterday asking whether Kenyon was, as you had been given to understand attending to the Isolate Co's business at the request of Mr. Moore.

We have your reply this morning stating that our Company authorized him to do whatever work he may have been engaged in lately.

We cannot understand what Company you refer to, as we understood from correspondence with you that Kenyon was placed under our instructions, and your telegram of this morning was the first information we had received of his receiving instructions from any one else.

We have heard that he was in Newburgh Sunday, and just looked at the engine, and said it was all right. Do you consider that this is sufficient inspection of it on his part.

Yours truly,

Thos. A. Edison Com'n. Dep..

B.



March 14th, 84.

Arthur S. Bevis Esq.

c o Edison Elec. Ill. Co. Tiffin Ohio.

Dear Sir:-

We have your favor of the 12th inst, and have telegraphed Mr. Rich to have a tin roof put on the building at Tiffin immediately. We presume that ere you receive this, the work will have been started.

We shall be glad if you will represent to the local parties our regret at the state of their building, and assure them that it is our intention to make everything perfectly satisfactory to them.

If there is any delay in relation to this work please telegraph us.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



March 14th, 84.

W. D. Rich Esq.

Dear Sir:-

We wired you this morning urging that the roofs at Tiffin, Ploton and Mt. Carmel be fixed immediately.

A party of gentlemen who went to Pennsylvania to visit the various stations there on behalf of the Edison Elec. Light Co. have just returned, and one of their chief complaints is the state of the roofs. Immediately I heard what they had to say we sent you a telegram instructing you to have tin roofs put on the three stations above referred to at once, and also asking you to report to us fully by telegraph in relation to this matter.

We trust that you will have acted upon this telegram as you receive this, as the trouble although is a comparatively slight one, is seriously jeopardizing our property in the various stations, and antagonizing the local people to a degree which we are not at all surprised at, after seeing the state of the Mt. Carmel station ourselves. There are several other matters about

don't they
[redacted] criticize, and about which we wish to see you immediately you are back in New York again.

Yours truly

March 14th, 84.

W. D. Rich Esq.

Dear Sir:-

Referring to our letter of this date, in relation to
Tiffin, Hazleton and Mt. Carmel.

We beg to state that we desire a tin roof put on the
buildings at Middletown and Piqua.

Yours truly,

Thos. A. Edison Constn. Dept.

BY.



March 14th, 84.

Gustav Soldan Esq.

104 Goreck St. City.

Dear Sir:-

I have your letter of the 13th inst, explaining the trouble in relation to the Bellefonte machines. I am however inclined to trust the absolute experience of our expert there, rather than the assertions of Mr. Barron in relation to this matter

We seem to have had quite a lot of trouble lately about machines. I remember that one arrangement was sent to Bellefonte not balanced at all. It does not seem as if the new arrangements you have made in reference to the inspection, testing, and overhauling of the machines work quite so well as when Johnson was in charge of this work.

Yours truly,



March 14th, 04.

Cardner C. Sims Esq.

Providence R. I.

Dear Sir:-

We have yours of the 13th inst, and think it will be impossible for us to go to Atlantic City as you suggest. Should be very glad to see you when you can come on to New York to spend a day or two. Please notify us when you are liable to be here, as it is just possible that I may go out of town to look at some of our Pennsylvania and Ohio Stations next week.

Yours truly,

A handwritten signature in dark ink, appearing to be 'S. J.' or similar, written in a cursive style.

March 14th, 84.

Thos. Spencer Esq.

Edison Elec. Ill. Co. Hazleton Penna.

Dear Sir:-

A party of gentlemen who have been visiting the stations in Pennsylvania on behalf of the Edison Elec. Light Co. have returned to-day.

In addition to the reports I have heard from our own men, I have heard what they have got to say with relation to the roof at the station which you have charge of.

Immediately on receipt of their complaints I wired Mr. Rich to have a tin roof put on your station. I have not yet had time to get a reply from him, but I shall be glad if you will advise him by telegraph, and thereby have no delay in this work, as it is our desire to have the station which you have temporary charge of put in order immediately.

Will you please represent our views in this connection to the local parties, and assure them of our earnest wish to make everything entirely satisfactory.

We shall confer further with Major Eaton, and Mr. Upton in relation to the various questions, and will probably write you further in relation to the matter.

yours truly.



March 18th. 04.

Thos. P. Conant Esq.

c/o Edison Elec. Ill. Co. Newburgh N. Y.

Dear Sir:-

We are in receipt of your letter of the 13th inst, in reference to the probable date that the Newburgh station will be ready to start.

The straight and "T" connections you asked for will be sent at once, and the pressure indicators, which you say have not arrived were forwarded some days ago.

We will hurry the resistance boxes for the "1" machines

The "B" meter which you desire sent to Newburgh in exchange for an "A" that you have on hand will be sent at the earliest possible moment.

Mr. Andrews was here yesterday, and we showed him your letter. You will no doubt see him in a day or two.

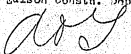
We will send you the house changing switches for meter test.

If you require coal you had better obtain some. We have no idea when Mr. Rich will be in Newburgh.

Yours truly,

Thos. A. Edison Constn. Dept.

By



March 15th. 24.

Arthur S. Boyes Esq.

c/o Edison Elec. Ill. Co. Tiffin Ohio.

Dear Sir:-

We are in receipt of your letter of the 12th inst, in reference to the trouble with the engine in Tiffin.

After substituting the new boxes, did you have the old one re-babbited?

Immediately upon receipt of your communication in reference to the belt, we ordered forward a new one to replace the damaged article. Please ship the damaged armature to the Edison Machine Works, 194 Grand St. New York by freight.

Yours truly,

Thos. A. Edison Constn. Dept.

BY.



March 15th. 04.

J. H. Hastings Esq.

Treas. Edison Elec Light Co. City.

Dear Sir:-

We beg to acknowledge receipt of your letter of the 11th inst, authorizing us to canvass the City of New Bedford Mass.

On Nov. 23rd, we received a letter from Major Eaton authorizing us to make this canvass, and also the canvass of Holyoke Mass.

As we were informed by you verbally that no canvasses will be paid for, except when the written authority bore your signature, will you kindly confirm Major Eaton's letter to us and oblige.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



March 17th. 04.

W. S. Andrews Esq.

Dear Sir:-

We beg to inform you that we have increased Mr. Doubleday's salary from \$75- to \$100- per month from the 1st inst. Please notify him to make out his expense sheets accordingly.

Yours truly,

Thos. A. Edison Constr. Dept.

BY.

A handwritten signature in dark ink, appearing to be 'T. A. Edison', written over a horizontal line. The signature is stylized and somewhat cursive.

March 17th, 04.

Geo H. Bliss Esq.

Gen Supt. Western Edison Light Co. Chicago Ill.

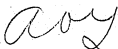
Dear Sir:-

We enclose herewith revised estimate for Cedar Rapids, for 1600 lights, and amounting to \$3,615.50, which we trust will come to hand and prove entirely satisfactory.

Yours truly.

Thos. A. Edison Constn. Dept.

By.



March 17th, 04.

Messrs. Bergmann & Co.

202 Ave. E. City.

Dear Sirs:-

Referring to the attached letter from Mr. Denty, which we found enclosed with your communication of the 14th inst.

We beg to say that we do not consider it practicable to use automatic regulators in connection with our small town system.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



March 17th, 84.

James Harris Esq.

Secy. Edison Elec. Ill. Co. Bellefonte Penna.

Dear Sir:-

We are in receipt of your letter of the 14th inst, asking us to send you 84 sets of meter plates and bottles of different capacities.

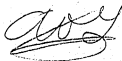
We have transferred this order to Messrs. Bergmann & Co. through whom all such supplies should be ordered.

Will you please write Messrs. Bergmann & Co. confirming this order and oblige.

Yours truly.

Thos. A. Edison Constr. Dept.

By.



March 17th, 34.

A. Stuart Esq.

Soc'y. Ohio. Edison Elec. Install. Co.

Cincinnati Ohio.

Dear Sir:-

We are in receipt of your letter of the 14th inst.

In reply we beg to say that we now thoroughly understand that all contracts for the installation of plants in Ohio are to be made with your Company.

We can assure you that we fully appreciate the fact of your being unable to make a complaint, but as a special favor might we ask you to submit to us any matters in connection with the Middletown building which you consider should be rectified by us. We trust we are not asking too much of you.

Mr. Wilber's report of the Cincinnati Block has not yet reached us, but the matter will be rushed just as soon as it arrives.

The check from the Tiffin Co. has not yet been received, but we expect it will arrive in a day or two.

Yours truly,

Thos. A. Edison Constn. Dept.

By. *S. Marshall*

March 19th, 04.

Edison Electric Light Co.

W. S. Hastings Esq. Treas. City.

Gentlemen:-

We are in receipt of your letter of the 17th inst, in which you confirm the verbal order of Major Eaton to canvass the cities of New Bedford and Holyoke Mass.

We are much obliged for this letter, but might mention that Major Eaton's order was not verbal, but written.

Yours truly.

Thos. A. Edison Counst. Dept.

Es.



March 10th, 1841

W. J. Jenks Esq.

Man. Edison Elec. Ill. Co. Brockton Mass.

Dear Sir:-

Your favor of the 12th inst came duly to hand.

Since its receipt we have been inquiring as to what trouble catch boxes have been giving in New York and elsewhere.

We find in our district down town here, we have 72 catch boxes most of them inferior to those used by yourself. We cannot find that they gave any trouble however here, and Mr. Krousi informs us that what few catch boxes (of the patent used by yourself) are used in our district are absolutely perfect, and he also reports that the catch boxes at Howlands, which are the same pattern as yours, have been perfectly dry all through the winter.

I would advise you to communicate with Mr. Krousi in relation to this matter, as he may be able to give you some information with a view to helping you to obviate any troubles you may have.

With relation to the old "H" boxes. It was not our understanding that you were to return these. If you do so, we can only credit you with their present value to us.

We are prepared to take back the new "S" regulators in as much as we can use them, as they are perfectly new.

Will you please let us hear from you further in relation
to this matter.

Yours truly,

Thos. A. Edison Const. Dept.

By.

Jusuel

March 16th, 04.

Geo. P. Lowery Esq.

3 Broad St. City.

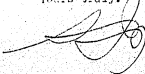
Dear Sir:-

Your favor of the 15th inst enclosing Mr. Hales letter of the 15th inst came to hand this morning.

With relation to the suit Walsh vs Edison. ^{available} is that I am absolutely unacquainted with the matter. I will however call on you either to-morrow or the next day, and see what I can do in connection with it.

I will send Mr. Hales a check for \$300- in a day or so. It is impossible for me to do so at the present writing.

Yours truly.

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke, positioned below the typed name 'Yours truly.'

March 10th, '84.

A. A. Cowles, Esq.

New York:

My Dear Cowles:-

Referring to your letter of 14th inst,

I beg to enclose you herewith letters of introduction to our London, Paris and Milan people. I also enclose copy of a cable which I sent this morning to Mr. Batchelor.

The Mr. Secretan I spoke of, is the party with whom Mr. Batchelor was dealing with relation to our business in Europe, and he controls, I understand, very large brass and copper works in France. I am not acquainted with his relations with the present Paris Company, so I think when calling on the latter, it would be better not to mention his name at all..

I do not doubt however, that Mr. Batchelor will write you to London, or see you in Liverpool in compliance with the request contained in my cable.

If I can do anything further for you, please advise me.

Wishing you a pleasant and successful trip, and a safe return, I remain,

Very sincerely yours,



March 10th, 04.

Messrs. Hermann & Co.

302 Ave E. City.

Dear Sir:-

We desire to impress upon you the importance of
shipping forward our pressure indicators. Every day's delay means
great loss to us, as so long as we are unable to tell what the
pressure is in our stations we are subject to very heavy lamp
breakage.

Shipments of pressure indicators seemed to have lagged
very much within the last week. Will you be kind enough to do
everything possible to push us forward and greatly oblige.

Yours truly,

Thos. A. Edison Constn. Dept.

By:



March 18th, 84.

M. S. Hastings Esq.

Trans Edison Elec. Light Co. City.

Dear Sir:-

We have canvassers in Boston Mass, and Newport S. I.

It would be no trouble for us to send a man on to Richmond Va.

Shall we do so?

Yours truly,

Thos. A. Edison Manstr. Dept.

BY.



March 18th, 84.

E. Harrison Esq.

110 Cannon St. London Eng.

Dear Sir:-

I have the pleasure to acknowledge receipt of your favor of the 13th inst, and am much obliged to you for the copy of your new work on the "Electric Light in our Homes", which I will peruse with interest.

Yours truly,

A handwritten signature in dark ink, consisting of a stylized, cursive 'S' or 'H' shape with a long, sweeping tail that loops back towards the main body of the signature.

Mr. Hastings:-

Referring to your memo of the 17th inst, with Mr. Bliss' letter attached.

I beg to inform you that the Holborn Viaduct Plant consists of three Central Station dynamos. Only one of these as a rule is run.

The lighting of Holborn Viaduct is of a very poor character indeed, the stores all closing at about 6 o'clock in the evening, in fact it is very like the lighting in Wall St.

The station has been run very expensively indeed, in a manner which I have no hesitation in saying was extremely unbusiness like, and a severe reflection on those who had charge of it, under the regime of the Edison Co. of London.

Since the amalgamation of this Company with the Swan Co. the matter has been taken in hand by Major Flood Page the Gen. Man. of the new combination, and when I was in London he showed me figures from which I gathered that he would be able to run the Station at a slight profit, and certainly at no loss.

The loss under the old management was £10 per day. This is being partly to extravagant labor accounts, partly to officials being charged against the station, who had nothing to do with it, and partly from very wasteful offices, which were not utilized to any advantage.

I do not think that the station in London will be stopped, unless such a decision has been reached since I left London on the 19th Jan.

The day before I left London, Mr. Forbes Chairman of the Edison Swan Co. decided to endeavor to run the station at cost on the figures shown by Major Flood Page.

In any reference that you may make to this station, I do not think that too great stress can be laid on the gross mismanagement, which would of course kill any concern, whatever the margin might be.

Saml. Inshall

By. A.

March 10th. 04.

March 18th, 04.

Messrs. E. Wynn & Co.

Post-Office Box 1949 City.

Dear Sirs:-

Your favor of the 14th inst was overlooked.

Mr. Chas E. Recap was in the employ of Mr. Edison as
book-keeper at the Edison Machine Works for about two years and a
half.

He is a young man of considerable ability, and so far
as we are aware his character is unquestionable.

Any further information you may require, we shall be
glad to give you.

Yours truly,

Thos.

W. S. Wynn

March 19th, 04.

M. E. Edison Esq.

Pres. Edison Elec. Mfg. Co. City.

Dear Sir:-

We are in receipt of your letter of the 17th inst, in reference to the Eschschute engine.

In reply we beg to state that we are taking active measures to have the change made as quickly as possible.

Yours truly,

Thos. A. Edison Constn. Dept.

T.A.



March 10th, 04.

The Edison & Swan Elec. Light Co. Limited,
25 Holborn Viaduct, London E. C.

Dear Sirs:-

Referring to your order No. 826, part of which has
already been shipped to you.

I beg to state that we will be able to bill the lamps
at a lower price, as asked for by you in yours of the 15th Feb.
provided you will make your order for 10,000 lamps, instead of
5000, and would give me authority to draw on you at sight the am-
ount of each shipment as made. In this case our prices will be as
follows:- 40 cents for 10 candle lamps, 50 cents for 10 candle
lamps, and \$1.00 for 50 candle lamps, otherwise we shall be com-
pelled to bill the lamps at the prices previously charged you.

We also desire authority to draw on you at sight for the
engine shipped you in as much as we have ^{already} had to pay cash
for this engine, and we simply act as your agents in the matter.

We enclose our accounts to date amounting to ^{\$2444.40} ~~2444.40~~,
but of course if we get a cable from you on receipt of this propos-
ing to the above proposal, we should give you a rebate on these in-
voices, in accordance with our suggestion as above.

World Bank & Post Office
No. 12
London, E.C. 4

The reduced prices are "F. O. B." New York.

Yours truly,

Major Eaton:-

Some correspondence has come to me from Mr. Hutchin-
son, which I notice that Mr. Solder has been written ~~up~~ with
relation to business in connection with the Machine Works.

The business of the Machine Works is conducted by us in
this office, and we would therefore feel much obliged if any matters
are in dispute you will kindly write to us in relation thereto, as
otherwise delay must occur in consequence of all such matters
having to be ultimately referred to this office.

I am now in communication with Mr. Hutchinson as to the
claim he makes of \$15- for wrong shipment of amature, referred to
Haml. Insull

By. H.

March 10th, 1884.

March 1931, 1931.

J. P. Kirby Esq.

c/o Edison Elec. Ill. Co. Middletown Ohio.

Dear Sir:-

Will you please let us know as quickly as possible what trouble you have ~~experienced~~ experienced in connection with the use of paragon cable. Has this material proved defective, and have you mentioned the use of it entirely?

The Secy. of the Ohio Edison Installation Co. writes us to the effect that you found this wire imperfect, the strands being exposed, and if this is the case we should like to have a report upon it, which we could submit to the manufacturers.

Yours truly,

Thos. A. Edison Constn. Dept.

By. 

March 19th, 34.

Deutsche Edison Gesellschaft

57 Leipziger Strasse Berlin Germany

Dear Sir:-

We have your favor of the 3rd March, and very much regret the complaints you make about lamps shipped to you.

We have communicated with the Lamp Co. and they write as follows:- "The Lamp Co. are willing to stand the claim of the German Co. for lamps that have the carbons touching the glass, or for lamps with split rings. We cannot however allow for broken carbons, as this is a trouble which we cannot control.

In all cases we hold ourselves responsible for faults that we can prevent".

Will you please advise us how many lamps have been sent with the carbons touching the glass, or with split rings, and we will see that the Lamp Co. immediately ship others to take their place.

We notice that your letter requests us to send you 2000 lamps of 86, and 1000 of 97. Are we right in understanding that this is an order in addition to your order for 20000 lamps. Please reply by cable if you consider it necessary. Anyway we are

...ing to ship the lamps asked for.

For the last two years we have had comparatively little trouble with breakage of lamps owing to bad packing, but if there are any broken from this cause in shipments reaching you, we shall be glad if you will advise us in detail as to the number of lamps, and the dock they were in, in order that we may place the responsibility on the packer, and endeavor to rectify such troubles in the future.

Yours truly,

March 19th, 84.

Messrs. Hoffmann & Co.

150 Ave. C. City.

Dear Sirs:-

We enclose our order No. 1077 for one Electrolier, which we desire for use in the office of our Newburgh Station.

We are putting this fixture in, as much to show your goods in a very handsome office, as to do credit to ourselves, and we hope that in rendering us a bill for same you will kindly remember this to the extent of any discount you are willing to make. So know we can rely on your liberality.

Yours truly,

Thos. A. Edison Constr. Dept.

By.

March 19th, 04.

E. B. Hubbard Esq.


Secy. Edison Elec. Ill. Co. Tiffin Ohio.

Dear Sir:-

We beg to acknowledge with thanks receipt of your letter of the 17th inst, enclosing check for \$2500.00 on account of the amount due us for material and labor in connection with the Tiffin installation.

Yours truly,

Thos. A. Edison Const. Dept.



March 10th, 04.

Genl. George A. Hall

103 Griswold St. Detroit Mich.

Dear Sir:-

We send you herewith estimate, specification of build-
ing, specification of street installation, chart of district, plan
of building and contract for the installation of an Edison Elec.
Light Central Station. Plant of 500 lamps capacity at Hillsdale Mich
the said estimate amounting to \$22,321.27.

This estimate is based on the present value of labor and
material, and we hold ourselves in readiness to close it at any ti-
me within 60 days from the date hereof, but not after.

The local Company in executing the contract for the in-
stallation of a plant should be careful to comply with the laws of
the State of Michigan.

A meeting of the Board of Directors should be called and
a resolution passed directing the officers named therein (usually
the President and Treasurer) to sign the contract on behalf of the
Corporation and affix thereto the Corporate seal.

Care should also be taken to have the officers signing
the contract acknowledge it before some officer authorized by law
by law to take acknowledgments and administer oaths, and in the
acknowledgment should be incorporated an affidavit by the

that they have signed the contract and affixed to it the corporate seal; in and by virtue of a resolution of the Board of Directors authorizing them so to do; the form of acknowledgement to be such as the laws of the State of Michigan require. The acknowledgement should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here or duly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company we will return a duplicate signed.

Yours truly

Thos. A. Edison Constn. Dept.

By.

March

Acknowledgment should be incorporated an affidavit by the officers that they have signed the contract, and affixed to it the corporate seal, in and by virtue of a resolution of the Board of Directors authorizing them so to do; the form of acknowledgment to be such as the laws of the state of Tennessee require.

The acknowledgment should be written on the blank space annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company, we will return a duplicate signed.

Yours truly,

Thos. A. Edison Constn. Dept.

BY

March 20th 1904.

A. G. Mitchell Esq.

2418 Prairie Ave. Chicago Ill.

Dear Sir:-

In reply to your letter of the 15th inst

We beg to say that we to-day sent you tickets for Knoxville, and shall be glad to hear from you in regard to the way in which our trains are located. We have picked the best paying territory for a 1000 light plant.

Yours truly,

Thos. A. Edison Constr. Dept.

BY.



March 19th 1914.

P. S. Hastings Esq.

Trans. Edison Elec. Light Co. City.

Dear Sir:-

Replying to your letter of the 14th inst, ~~where~~ to say that 101 poles will be necessary if the New Orleans installation is made an overhead system. Thinking that you would desire information, we prepared an estimate upon receipt of your letter this morning for a New Orleans plant overhead, ~~at~~ the above price, which entitles amounts to \$25,000.00 or \$17,500.00 less lamp. We might state that we have only two sets of ~~estimates~~ (Williamson & Hanna) which would be for a New Orleans plant.

Yours truly,

Wm. A. Wilson Com'n. Dept.

March 20th 1914.

P. M. Martins Esq.

Treas. Edison Elec. Light Co. City.

Your Sir:-

We beg to acknowledge receipt of your letter of yesterday's date, authorizing us to canvass the City of Manchester N. H.

Yours truly,

Thos. A. Edison Const. Dept.

BY.



March 20th, 04.

G. Markle Esq.

Hazleton Penna.

Dear Sir:-

Referring to the amount due to the Hazleton Casting Co.
(\$1,457.93) for goods ordered by our Superintendent of you on your
account.

We shall be glad to hear if you will be willing to ac-
cept an order from us on the Edison Elec. Ill. Co. of Hazleton for
the amount of the above indebtedness, same to be deducted from the
final payment due us by the Hazleton Co.

Yours truly,

Thos. A. Edison Constn. Dept.

By:



March 20th 04.

Messrs. Leslie & Hall

151 Griswold St. Detroit Mich.

Dear Sirs:-

Enclosed we beg to hand you plan showing the general arrangement of our proposed building for Central Station at Hillsdale, which we were unable to send when forwarding the estimates for that place. Will you kindly annex this to our papers and oblige.

Yours truly,

Thos. A. Wilson Const. Dept.

T.A.W.



March 22nd 04.

S. Hastings Esq.

Trans. Edison Elec. Light Co. City.

Dear Sir:-

We send you herewith estimates, specifications for build
building (building specification is the same for 500 and 1000
light plants) specifications for street installation, charts of
district, plans of building, and contracts for the installation
of an Edison Elec. Light Central Station Plants at Ashland Pa. the
said estimates amount to viz:- 500-10 C. P. = \$19,000.00, 1000-10
C. P. = \$30,000.00, and 1000-10 C. P. = \$24,000.00.

These estimates are based on the present value of labor
and material, and we hold ourselves in readiness to close either of
them on the terms stated at any time within 60 days from the date
hereof, but not after.

The local Company in executing the contract for the in-
stallation of a plant should be careful to comply with the laws of
the State of Pennsylvania.

A meeting of the Board of Directors should be called,
and a resolution passed directing the officers named therein
(usually the president and Treasurer) to sign the contract on
behalf of the Corporation and affix thereto the corporate seal.

Care should also be taken to have the officers signing

the contract acknowledge it before some officer authorized by law to take acknowledgments and administer oaths; and in the acknowledgment should be incorporated an affidavit by the officers that they have signed the contract and affixed to it the corporate seal, in and by virtue of a resolution of the Board of Directors authorizing them so to do; the form of acknowledgment to be such as the laws of the state of Pennsylvania require.

The acknowledgment should be written on the blank pages annexed to the contract.

We do not require the contract assented upon us until it is received here properly presented, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company, we will return a duplicate signed.

Yours truly,

Thos. A. Edison Constr. Dep.

By.

March 24th, 04.

Major Eaton:-

I enclose a letter received this morning from Hazleton. Have you any suggestions to make with relation to changing the position of the poles you complain of. It seems to me it would cause a good deal of trouble to do the work.

S Insull.
Per McG.

March 24th, 1884.

Major Eaton:-

I enclose a letter received from Shumkin to-day. The correspondence with relation to the Automatic Regulator took place with Borgmann & Co. I have however written Doubleday that it is impossible to use Automatic Regulators with our present Central Station system. I have also promised to send the estimate for altering the present plant to-morrow or next day.

S. Insull,
per McC.

March 24th, 1911.

J. F. Kirby, Esq.

U. S. Hotel, Middleton, O.

Dear Sir:-

We have your two favors of 11st inst.

We cannot understand why you should report the trouble about the materials to Mr Stuart. Are you not aware that you are working for us, and any troubles you meet should be reported to us and to nobody else. We must request you to pay particular attention to these instructions in future. We wish you to write us immediately you find any trouble.

Mr Stuart writes us that there are lots of orders for wiring at Middleton. You write that the people are waiting to see the light in operation before ordering wiring. We cannot account for the difference in these statements. Perhaps you can explain.

Yours truly,

Thos. A. Edison, Const. Dept.

By



March 24th, 1881.

P. R. Green, Esq.

1 Queen Victoria Street, London, E.C. England.

~~Dear Sir~~:-

Your favor of 5th March came to hand on Saturday, and contents noted.

I hope to be able to send you instructions about the Manchester matter in a day or two.

Will you please purchase and ship to Thos. A. Edison, 85 Fifth Avenue, New York, 25 Swan lamps of 16 candle power to run at 100 volts, and 25 lamps of 10 candle power each to run at 100 volts. If you cannot get lamps ^{of the} ~~to be had at~~ above candle power to run at above volts, please get the nearest to them possible. We desire lamps of the newest make. If you can get six small lamps of about 1 or 2 candle power in addition to the above, we shall be much obliged.

In purchasing the lamps, you will of course be careful to purchase them in your own name, but when making the shipment, you should make out an invoice for them at cost and have the same certified by the U. S. Consul. You might also see whether you can ship them to us as experimental material so as to save the expense of custom duties.

We will remit you the amount of the bill for these lamps immediately on receipt of same, or if you prefer it, you can draw

George F. Smith
111 E. 11th St.
Detroit, Mich.

on Mr. Edison at one day's sight. Doubtless J. S. Morgan would
cash the draft.

Yours very truly,



March 24th, 84.

Henry. A. Clark, Esq.

7th Avenue Hotel. Pittsburg. Pa.

Dear Sir:-

We have your favor of 23rd inst.

We told you when you were here that it would be impossible for us to send a canvasser to Cumberland unless you gave us reasonable notice as to when you would require one. We do not keep canvassers in the office. They have their work laid out as a rule about a month ahead, and towns are canvassed in the order in which instructions for an estimate come in from Mr. Hastings. We asked you to have such instructions given immediately and allow us to choose our own time to send a canvasser. We regret that you did not do this, as we cannot tell now when we will be able to send a canvasser. If your letter had ~~come~~ to hand on Saturday instead of to-day we could have sent a man immediately, as we had one here waiting for instructions. He has now gone in an entirely different direction.

Whatever delay takes place in this matter, we do not feel that we are at all to blame for as we had already warned you about it.

Yours truly,
Thos. A. Edison. Const. Dept.
by

March 24th, 04.

T. H. Cooke Esq.

Parry House Newport R. I.

Dear Sir:-

We are in receipt of your letter of the 21st inst. The canvass of Springfield came to hand all right.

It might be as well for you to mention the number of lights in the ocean House, as the information may be of service to us in future.

We will wire you where to go when you are through at Newport.

Yours truly,

Thos. A. Edison Constn. Dept.

ED.

March 24th. 1884.

W. H. Doolley, Esq.

Treasurer, Fall River, Mass.

Dear Sir:-

We have your favor of 20th inst.

We must confess that we very much regret that you should not have answered our ^{letter} of 28th Feb'y more promptly, and that you should have put off bringing up the troubles you speak of until such time as we are pressing for a settlement of the account.

We will have the boilers examined by an expert, and whatever is wrong will be put right. We may state however, that the boilers ^{two} we contracted to supply you with, namely; 73 H. P. Boilers are the same as we have put up in Brockton where far more lights than you are using are being run, and the boilers are guaranteed to give the Horse Power ^{rated} guaranteed by Messrs Babcock & Wilcox. Our own experience with boilers of this character is, that there is from 15 to 25 per cent margin of horse power in them, and we are extremely surprised that you should have the trouble you speak of. We do not wonder at all that Mr Rich should have stated that they would do the work claimed for them, although of course, if Mr Rich made his statement to you in a manner at all offensive, we very much regret it, and offer you our apologies for same.

2.

With relation to the muffler. We would call your attention to the fact that our contract does not call for a muffler, and it very much surprises us that the noise should have become any nuisance, considering that ^{the exhaust} in the Arc light station across the water from yours causes much more noise, if our information on this subject is correct.

The matter of the pump, we will also look into.

Yours truly,

Thos. A. Edison Construction Dept.

By *SD*

March 24th, 04.

H. M. Doubleday, Esq.

Shamolin, Pa.

Dear Sir:-

We have your favor of 21st inst. It is impossible to use the Automatic Regulator in connection with our Central Station system at present.

The fact that the smoke stack at Sunbury has broken does not at all surprise me.

The estimate for altering the present Station will be sent to-morrow or next day.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

March 24, 1914.

Paul D. Spear Esq.

25 Carey Ave. Chelsea Mass.

Dear Sir:-

In reply to your letter of the 18th inst we beg to say
that it will be unnecessary for you to obtain options on real es-
tate.

Yours truly,

Thos. A. Wilson Constn. Dept.

BY:

March 24th, 84.

Messrs Babcock & Wilcox.

New York.

Gentlemen:-

We shall be glad if you will send an expert to Fall River to look at and report on the boilers in the Station of the Edison Electric Illuminating Co. of that city. The Treasurer of the Company informs me that they have very great trouble to get about 40 H. P. out of one of the boilers, and they are unable to maintain more than 40 pounds pressure in their efforts to do so. We bought the boilers from you as a pair of 75 H. P. boilers set in one battery, and our own man had charge of the setting of same, which was done in accordance with plans furnished by you. We should prefer that you send a man from New York, rather than from your local or Boston Agency, and we should be obliged by your instructing him to keep his own counsel strictly, and not offer any opinion to the local Company in relation to the matter. If you can deal with this matter immediately, you will confer a favor on us, as we are delayed in getting a settlement of our contract owing to some trouble in this part of the installation. We presume you will charge us no more than the bare expenses and time of the man you send to make this report.

Yours truly,
Thos. A. Edison Const Dept.
By

09

March 24th, 1884.

Arthur. S. Revds. Esq.
Tiffin, Ohio.

Dear Sir:-

We are obliged to you for your favor of 23rd inst,
and note contents.

Cannot you figure out for us the life of the lamps at
Tiffin? That is, can you get at the lamp hours of the lamps
there, and take the breakage, and in connection with this find out
whether the lamps are burning 100, 200 or 300 hours or more, what-
ever the case may be.

Yours truly,

Thos. A. Edison Const. Dept.

By



March 24th, 184.

Messrs Borgmann & Co.

New York.

Gentlemen:-

We have your favor of 20th inst, and very much regret that you should have written in the manner you have to Mr. Marr.

The largest stockholder in the Sunbury Co, except the Edison Electric Light Co, is Mr. Edison.

Mr. Marr spoke to me when I was in Sunbury with relation to the account he owes you, and said he would pay the old bill off during the present year. He is honestly trying to get his affairs in good shape, and if you refuse to supply him with material now, it simply means that the wherewith to get his plant running satisfactorily is cut off. If you will supply the material on no other terms, the Construction Dept will guarantee the bill

Yours truly.

Thos. A. Edison Const. Dept.

By 

Feb. 24th. 84.

Mr. Hutchinson:-

I have your favor without date referring to the claim of \$15.00 for the mistake with relation to the armature sent to Newton & Co. I am sorry you differ with me in this matter, and I am still of the opinion that we are not responsible in toto for the trouble. Is it our business to tell the Isolated Co, what kind of an armature they require when they order a new one? If so, I would like this point definitely settled. My impression was that the Isolated Co decided this for themselves and kept track of all machines out. Furthermore, in your claim you simply state \$15.00, and give no details. I am still willing to bear half the expense but not more.

S Insull.

Per McG.

March 24th, 14.

Mr. Tate:-

Please arrange to send a canvasser to Cumberland as per enclosed as early as possible. Mr. Hastings will send you an order for the canvass.

S Insull.
Per McC.

March 24th. 1914.

A. Stuart, Esq.
Secretary. Cincinnati, O.

Dear Sir:-

We have your favor of 20th inst with relation to the building at Middleton.

We regret very much that the building should not be large enough, but it is the size we ordinarily erect for 500 light plants. I am having the estimate for the Middleton building looked into, and will write you further in relation to the matter.

Some days ago we received from Tiffin a check for \$4000.

Bergmann & Co, inform us on our enquiring immediately on receipt of the above referred to letter, that everything ordered by Kirby for Middleton has been shipped.

Yours truly,

Thos. A. Edison Const. Dept.

By 

March 24th. 04.

The Secretary,

Edison's Indian & Colonial Electric

4 & 6 Throgmorton Avenue, London, E. C. England.

Dear Sir:-

Your favor of 10th inst came to hand this morning, and it was therefore impossible to cable you in reply to same in order to be in time for your Board of Directors meeting which was held on the 31st inst.

Drexel, Morgan & Co have full authority from me to deal with the matter you speak of, and I have accordingly sent your letter to them with a request that they reply to same immediately.

Yours very truly,



March 24th. 1922

Gardiner, G. Sims, Esq.

Providence, R. I.

My dear Gardiner:-

Your favors of 20th and 23rd came duly to hand. I want to see you before saying anything about what our future business will be. In fact, I want to have quite a talk with you. When will you be along? Of course you are going to stay with me the next time you come down.

Yours very truly,

A handwritten signature, possibly initials, consisting of two overlapping loops.

March 24th. 94.

Societe Electric Edison.

33 Avenue de la Opera. Paris, France.

Gentlemen:-

We shall be very glad if you can send us 25 lamps of 16 candle power, and 25 lamps of 10 candle power made at your factory at Ivry, volts and candle power to be distinctly marked on each lamp.

We desire these lamps so that we may experiment with them at our Lamp Factory here, and see whether there are any suggestions we can offer you in connection with improving the life and character of your lamps.

In making the shipment, please have the invoice and document fully authenticated by the United States Consul, and if it is possible for you to ship them as experimental material, please do so in order to save us the expense of custom duties.

Yours very truly



March 24th, 04.

A. Stuart Esq.

Geny. Ohio Edison Installation Co.

Cincinnati Ohio.

Dear Sir:-

In reply to your letter of the 17th inst we beg to say that you have misquoted our bill rendered with our letter of the 14th inst for material supplied outside of our contract for 15112-
1000.

The item you refer to reads:- "9. 2. and Pat. Fire proof copper etc." and the interpretation is double braided etc. This is not the paragon cable in regard to which we have written Mr. Kirby to ascertain why he declined to use it, as as if your correspondence reached us we were unaware that it was imperfect in its manufacture. We have used a great deal of it elsewhere, and in many cases it has been adopted by parties having the lights installed, in preference to any other kind.

Yours truly,

Thos. A. Edison Constn. Dept.

BY.

March 24th. 04.

A. Stuart, Esq.
Secretary, Cincinnati, O.

Dear Sir:-

We are much obliged to you for your favor of 20th inst with relation to the starting of the Middletown Station.

We have shown your letter to our chief electrical engineer, Mr. Andrews, and our superintendent of construction, Mr. Rich, impressing upon them the necessity of taking extra precautions in the case of Middletown.

Hoping that everything will go on satisfactorily, we remain,

Yours very truly,

Thos. A. Edison, Const. Dept.

By



March 24th, 84.

Geo. S. Hale, Esq.

38 Court St. Boston, Mass.

Dear Sir:-

Your two letters to Mr. Lowery have been forwarded to me.

I regret to state that I know nothing whatever about the case of ~~Welsh~~ V.S. Edison, but immediately Mr. Edison returns, in a week or so I expect, I will see that the matter is taken up and pushed through.

I saw Mr. Adams on Saturday, and he promises to give his testimony as soon as Mr. Edison comes back.

I will send you check for \$300. in course of a day or two.

Yours truly,



March 24th, 04.

Lighting Est.

Tromp, Edison Elec. Light Co. City.

Dear Sir:-

We have been obliged to delay our answer to your memo of the 13th inst., enclosing a letter addressed to Spencer Gordon Esq. by Mr. A. C. King, in reference to our Portland estimate.

We send you within this communication estimates prepared in accordance with Mr. King's letter, and which take in the district he desires to light. * It is only possible to run overhead conductors to a very limited extent in Portland, as in the residential part of the city there are many trees, and these prevent the installation of a pole line system. It would be possible to combine the overhead and underground systems, but such a greater part of the installation has of necessity to be laid underground it would be advisable for a permanent investment, to have a uniform installation throughout, and for this reason the bid which we enclosed ~~is~~ made upon the assumption that the underground system will be adopted. *

Our reason for not running the lines on both sides of Middle St. was that we desired to furnish an estimate for a 1000 light plant. It was therefore unnecessary to have more than 1000 lights in the district at the outside, and had we taken in the

opposite side of the street referred to, we should have covered
about ³⁰⁰ lights; thereby making the cost of the 1600 light plant
excessive.

STATEMENT OF PROFITS. We are not quite clear as to what
statement of profits Mr. King refers to, but all which have been
prepared in our office show percentages for division upon the capital
necessary to the formation of the Company, and in no case upon the
cost of the installation alone.

We reviewed the original notes upon our contract re-
ferred with Mr. King's communication, and although you have not
released that portion of his letter for us to answer, we think that
an explanation, in view of Mr. King's remark that the Portland Com-
pany refuse to sign any such document, would at this moment be in
order.

The first objection taken is to the clause "REMOVAL OF
OBSTRUCTIONS", and the question is asked as to what is meant by the
word obstruction. In the paragraph in question the word referred
to cannot be considered as meaning "Rock", or any obstacles usually
met with in excavating. Such obstacles would in no case prevent
the contractor from crossing poles or laying tubes. Obstructions
within the meaning of the clause in question are only such as pre-
vent the execution of the work, and the use of the word "prevent"
fixes the meaning to be given it.

The contractor must rely on two things. First that he is to have the right to lay tubes or erect poles along the route described. Second that he is not to be prevented from doing so by reason of any obstruction existing along such route. The clause is intended to provide for cases that the Construction Department may encounter in the installation of plants viz. the occupation of the streets by other structures to such an extent as to prevent the laying of tubes, or erection of poles and running of wires.

The contractor cannot be presumed to know the exact condition of every street in every town for which he contracts to run his conductors, and must assume that he is to meet only with such obstructions as are usually encountered, and which will permit the execution of his contract. It might happen that vaults, pipes or other structures occupy the streets to such an extent that the ~~laying~~ tubes would be an impossibility, or that trees, poles etc. do occupy the space above the surface that wires could not be strung. These would be obstructions within the meaning of the contract.

In view of the business in which the Construction Dept. is engaged the possibility in question should be provided for, and the clause as written is very favorable to the local Company; if such obstructions are encountered it is made their duty to remove them, but if they fail in this, then the obligation is imposed on

the contractor to either remove the obstruction or avoid it as he may deem best. It is only when he is unable or deems it inadvisable to do either that he has the right to terminate work, and we would point out that this right is only given to the contractor after the Company have been guilty of a duplicate breach of their agreement, the first when the obstruction was met with, and the second when they (the Company) failed to remove it.

The next objection is taken to the clause "DAMAGES FOR BREACH OF CONTRACT". It is not stated whether the objection in this case refers to the limit placed upon the Company's default in payments or the amounts to be retained as liquidated damages, by the contractor in case of such default. If the former, the five days need not be an arbitrary limit, but can no doubt be satisfactorily adjusted by the parties to the agreement. If the latter, it is only necessary for anyone desiring the information to make out an estimate of what it would cost the contractor to bring an installation to a partial or final state of completion, and then be obliged to remove it on account of non-payment on the part of the Company. In order to ascertain that the amounts retained are but sufficient to cover the cost of such removal and recompense the contractor for the damages he would sustain under such circumstances. We would beg to add, that in addition to the damage sustain by the contractor, and the expense above referred to, it might

well for an enquirer to consider the effect produced by such a contingency on the future work of the contractor. The fact of having had to remove an installation would be seized by rival Companies and used as capital against the Edison light, and there is hardly a doubt that such Companies would withhold the real cause of the removal, and apply theories of their own.

That the contractor would sustain severe damages in a case of this nature, cannot be questioned, and any amount he might retain would ^{at} slightly recompense him for his cobbed loss of work in hand, and work in prospective. Again, in discussing this agreement the reciprocal relations of the contracting parties must be carefully considered. The contractor is tangible, and can be reached by a judgement in case of the failure to perform his part of the agreement, and while objection may be raised to calling a corporation intangible it is virtually the case. We are aware of course of the possibility of obtaining a judgement against a Company, but where their subscription list represents their capital, and no property of any value is in their possession the chances of executing such judgement are very slight. It is a repeated occurrence, as you are no doubt aware for persons to subscribe to the stock of a Company without possessing the necessary amount of money to meet the obligation. In the personnel of a Company may be many responsible men, but the extent of their *liability*

in the event of a judgment against the corporation is represented only by the amount set opposite their names on the subscription list, and for these and like reasons the contractor should be protected in his agreement in such a manner as to provide for all contingencies without appealing to, and depending upon a judiciary for equity.

If any of the gentlemen comprising the Portland Company will come forward and guarantee our contract we shall be quite willing to enter into an ordinary business agreement, but where we are dealing with an invisible body, we consider our agreement a most reasonable one. A discussion in person with the Portland gentlemen would enable us to more clearly explain the points in question, but we think the reasons given will show them that the clauses they object to are perfectly fair, as well to the Company as to the contractor.

Yours truly,

Thos. A. Edison Constn. Dept.

By.

THOMAS A. EDISON,
NO. 65 FIFTH AVENUE,

NEW YORK, Feb 25th, 84. 188

Deutsche Edison Gesellschaft,

96 Leipziger Strasse. Berlin W. Germany.

Dear Sirs:-

Referring to my recent cable correspondence with you, and your authority to me to draw on you for the shipment of lamps, and your later advice refusing me permission to draw for subsequent shipments, we beg to inform you that the prices quoted you for lamps and other material, are the lowest possible prices I can name, and these prices were fixed on the basis that payment would be made for each shipment on delivery of bills of lading and invoices here in New York. It was on the assumption that these terms would be carried out that I was enabled to get the Lamp Co. ^{Special} specially to quote terms for heavy shipments ^{to} you, and I am therefore compelled to meet the amount of their bills immediately they present me with the documents. This leaves me out of pocket for some considerable time with no equivalent for being obliged to take such a course, as I bill the lamps to you at the same price as they are billed to me. I should therefore be much obliged if you will kindly make arrangements, which will enable me to draw upon you through some New York house on presentation of documents, or by which I can get payment for the goods without drawing upon you. This latter course is pursued by our Paris friends, who simply require of me to present invoices and bills of lading to their

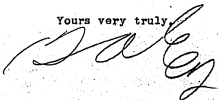
financial agent here, and he pays me the amount of same against my receipt for the money received. If however, in your opinion, it

is more desirable for me to draw, I am perfectly willing to do so, either at sight, or on a time draft, provided that you ^{cash} arrangements ~~as will enable me~~ for me to get same cashed in New York.

At this writing I have paid out the amount of \$3200, which I presume I will not receive from you for the next ten days or so, owing to your having wired me that you have written in relation to this subject.

Why ~~can you not~~ ^{cannot you} at the time you order goods from me, write to Speyer Bros, New York, opening a credit sufficient to cover the cost of same?

Yours very truly



March 25th. 04.

Major Eaton:-

I enclose you a letter from Shamokin as to the lamp
breakage. The difference is only 3 1/2 jumps in the way of
improvement, but still this is better than going in the opposite
direction.

S Inall.

per McC.

Feb 25th. 04.

Major Eaton:-

Our Mr. Rich leaves for Hazleton to-night.
The poles there will be fixed up to the satisfaction of the Local
Company, I hope this week.

He is also going to Sunbury to look into the ~~line~~ ^{complaint}
there. I will let you know what he reports.

S Insull,
L. McC.



March 25th. 04.

Deutsche Edison Gesellschaft.

96 Leipziger Strasse. Berlin W. Germany.

Dear Sirs:-

Referring to your letter No. 3204, March 6th. I beg to enclose you herewith price list of the Electric Tube Co, for tubes of the three conductor system.

The discount which they allow to Companies in this Country is 28 per cent on the prices quoted, but should you give an order for any considerable quantity of tubes, I can arrange to get you a discount of 30 per cent, and if you will give me authority to draw upon you at sight for the amount of each shipment made by the Tube Company, I can arrange for an extra discount of ~~2~~^{2 1/2} per cent, making a total discount of 32 1/2 per cent.

The two conductor tubes have practically gone out of use, except for the purpose of services between a consumer's house and the three conductor main. The cause of this is the very great variation between the amount of copper used in the two conductor system, and that used in the three wire system. In this country we should not think for one moment of using the two conductor system in our Central Station Plants.

The Tube Company has no price list of the two conductor

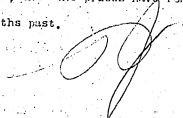
Revised edition
1930

tubes, but I will get a statement of the prices from them, and forward same to you as early as possible.

Yours truly,

P. S.

The prices quoted are F. O. B. New York, and are subject to a change any time before an order is given, without notice, owing to the variation in the prices of the materials used. I may remark however, that the prices have remained constant for six or eight months past.



March 25th, 84.

Geo. H. Bliss Esq.

Gen. Supt. Western Edison Light Co.

Chicago Ill.

Dear Sir:-

We enclose herewith form of agreement, and estimate of proposed Central Station at Des Moines Iowa. Capacity 1600 lights, total cost \$28,745.19. The exhibits "A" and "B" as referred to in the enclosed contract will be forwarded to you on Friday, or earlier if possible.

This estimate is based on the present value of labor and material, and we hold ourselves in readiness to close it on the terms stated at any time within 60 days from the date hereof, but not after.

The local Company in executing the contract for the installation of a plant should be careful to comply with the laws of the State of Iowa.

A meeting of the Board of Directors should be called and a resolution passed directing the officers named therein (usually the president and Treasurer) to sign the contract on behalf of the Corporation and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and

administer oaths, and in the acknowledgment should be incorporated an affidavit by the officers that they have signed the contract, and affixed to it the corporate seal, in and by virtue of a resolution of the Board of Directors authorizing them so to do; the form of acknowledgment to be such as the laws of the State of Iowa require. The acknowledgment should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company we will return a duplicate signed.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



March 25th, 1911.

Gustav Soldan, Esq.

Supt. City.

Dear Sir:-

I have pleasure to enclose you herewith a letter which I have received from the Secretary of the Isolated Co. The complaint he speaks of appears to me to have occurred often of late. Is it owing to the fact that you discharged Johnson? When a similar complaint came from the Western Edison Co., you sent me a letter received by you from the Light Co. in which they took the responsibility for machines when once tested, but I do not consider this a sufficient answer to the complaint. Although theoretically, the Light Co. test our machines, still, it is our duty to see that all machines are sent out in good condition. I know that the authorities of the Isolated Co. feel very strongly on this point, and I would urge upon you to have much more care taken with machines when being tested in order to obviate the recurrence of these complaints.

Please return the enclosed letter to me with your comments thereon.

Yours truly,



March 28th, 1884.

My Dear Andrews:-

In reply to your letter of the 25th inst, I beg to say that the amount due us as soon as the Newburgh Station starts up is \$11,500-. The total amount of the Newburgh contract is \$38,000, \$9,000 of which was paid upon the signing of the agreement the same being 25 per cent, and no further payment was due us until the Station was in a condition to supply light. Upon our applying to them however, the Newburgh gentlemen were kind enough to advance \$7,500- on account of the second payment of 50 percent due as above stated, thus leaving a balance to be paid us of \$11,500 as soon as you get pressure on the mains.

As soon as you definitely decide as to when you will start the Station send me a telegram.

I am very much pleased to hear you speak so highly of Conant's work, and I am furthermore glad to be informed that we will have such a neat and complete Station at Newburgh.

Very truly yours

W. S. Andrews Esq.

Newburgh N. Y.

March 20th, 84.

Joseph Hutchinson, Esq.

Secretary. New York.

Dear Sir:-

Referring to your letter of 11st inst, returned herewith, I do not doubt but that Mr. Edison would supply the Edon Museo with some specimens of his inventions. He will be back on Saturday night, and doubtless on Monday we can arrange the matter.

Yours truly,

A handwritten signature in dark ink, consisting of a stylized, cursive 'J' followed by a flourish.

March 26th, 1914.

N. W. Pratt, Esq.

Treasurer, Babcock & Wilcox Co. New York.

Dear Sir:-

We are obliged to you for your favor of 25th inst, condoling us on having a contract in Fall River. We must how, ever, in justice to Fall River say, that our experience is not exactly the same as every other concern". The outstanding balance is only about \$1500. or \$3000, and our contract amounted to about \$40,000, so we are in hopes of getting through all right.

Yours very truly,

Thos. A. Edison. Const. Dept.

By



March 26th, 84.

Thomas Spencer Esq.

c-o Edison Elec. Ill. Co. Hazleton Penna.

Dear Sir:-

Replying to your letter of the 24th inst. We send you under same cover map of Hazleton showing the ^{main} ~~main~~ course of mains and feeders, and wish you would locate on same the position of each pole as erected, and also in a distinctive manner from the former the position of each street light which it is desired by the Hazleton Co. to install. We will then furnish an estimate. We will also look into the matter of making a separate system.

In regard to the party who you say has started in the wiring business upon two days experience, we do not think it would be safe to trust him with any work unless he can prove that he is thoroughly capable of performing it. Of course we know nothing about him, and can only judge from what you say in your letter, but we have formed an opinion that his knowledge of the wiring business must be extremely limited. We cannot send an expert to Hazleton to examine this party as we have already educated a man, and made him competent to do all such work, and if any other person desires to start in the same business, the Hazleton Co. ^{should} ~~should~~ allow him to take any work whatever, until they are thoroughly satisfied that he is able to perform it in an efficient manner. It looks to us as though he should pay his own expenses to New York in order to obtain a certificate as to his capability, if he desires to.

engage in the wiring business. This however is a matter entirely
in the hands of the Hazleton Company, and our remarks are merely
suggestions.

Yours truly,

Thos. A. Edison Constn. Dept.

By.

W. S. Sully

March 26th. 84.

Joseph Hutchinson, Esq.

Secretary. E. C. for J. J. New York.

Dear Sir:-

Referring to our letter to you on 23rd inst, we wish you to understand that the brushes mentioned are sent by us with each machine, free of charge.

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke, positioned below the typed name 'Yours truly,'.

Feb 29th. 84.

Messrs Drexel, Morgan & Co.

New York.

Gentlemen:-

I have your favor of 29th inst, and in reply would beg to state, that the reason I sent Mr Morris' letter to you, is, that I thought ~~the~~ Reason's Indian & Colonial Light Co would in all probability look for a formal answer in addition to the instructions transmitted to Col Gouraud.

With reference to the "B" shares, - I agree with you that it would seem only equitable that a small reduction should be made in relation thereto; but, would it not be better to write to this effect to Col Gouraud?, as he may possibly have made some terms with the Company, which a letter from you ^{to them} would in all probability interfere with.

Yours truly,



March 27th, 84.

W. L. Garrison Esq.

Treas. Edison Elec. Ill. Co. Brockton Mass.

Dear Sir:-

We beg to acknowledge with thanks receipt of your letter of the 26th inst, enclosing check for \$766.91.

In regard to our letter of Dec. 26th, in which we quoted price \$115- for two regulators for the "S"-dynamo machines, we would say that when we rendered you a subsequent bid that the price of these regulators had changed, owing to some alteration made in the device. By referring to our letter of Feb. 14th, you will remember that we asked you to kindly advise us which bid you had accepted. The more recent one, you will no doubt remember, included all labor in connection with the change you desired to effect in the Brockton Station, and which amounted to \$3,924.95.

Annexed to this we gave you credit for an 812 X 10 engine, cap and washers, bolts and pipes, and one "H" dynamo, the amounts of which aggregated \$2,200.00. We make this explanation in order that you may recognize the estimate we refer to. In this bid we quoted the price of the regulators at \$130-, and it was for this reason that they were charged in the bill rendered you at that price. As however, our letter of Dec. 26th to Mr. Jenks quoted \$115- we are quite willing to make the allowance you claim of \$23-.

Will you very kindly let us know where you sent the plug switches and pulleys returned. The amount of \$1350- for one dynamo is correct.

Marhh 27th, 84.

M. Floyd Esq.

Shamokin Penna.

Dear Sir:-

In reply to your letter of the 25th inst, in which you state that you make very slow progress in disposing of the paragon wire, and ask for more time in making us payment for same, we beg to say that we shall be quite willing to accede to your request.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



Mch. 27th, 84.

Major Eaton:-

Referring to the enclosed, I would say that the local people are somewhat divided as to whether Hill should be allowed to do the wiring. Some of the Directors think he should, and others think he should not. There is a wireman there, who has been educated to do the work. Under the circumstances, I hardly like to deal with the matter.

S Insull,
per McC.

McK 27th, 04.

H. M. Doubleday, Esq.

Shamokin, Pa.

Dear Sir:-

Will you please find out immediately the new pressure indicators arrive at Mount Carmel. They were shipped by Bergmann & Co. yesterday.

We want you to go to Mount Carmel, and see them in working order, and give such instructions to the local men as may be necessary. Also see that the old pressure indicators are re-shipped to Bergmann & Co, as quickly as possible, and advise us of the shipment.

Your favor of 23th inst came to hand this morning, and we are much obliged for the information it contains.

Yours truly,

Thos. A. Edison, Const. Dept.

By



March 27th, 84.

W. S. Andrews Esq.

Newburgh N. Y.

Dear Sir:-

Replying to your letter of the 25th inst in regard to safety catch loads for Shamokin, we beg to say that we do not know how much current it is desired to make these capable of carrying. We have written to Mr. Doubleday, and as soon as we hear from him we will order forward the necessary loads, together with holders for same, and they will no doubt be in Shamokin by the time you arrive at that place.

Yours truly.

Thos. A. Edison Constn. Dept.

By.



March 27th, 84.

W. S. Andrews Esq.

c/o United States Hotel Newburgh N. Y.

Dear Sir:-

We beg to acknowledge receipt of your telegram of the 26th inst, stating that Mr. Bellknapp will send us a check for \$6000- to-morrow.

In regard to the engineer ~~of~~ Newburgh, we have wired Rich, and are doing all we can to hasten his arrival.

Yours truly,

Thos. A. Edison Constn. Dept.

By. 

March 27th. 84.

W. S. Andrews, Esq.

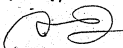
Nowburg, N. Y.

Dear Andrews:-

Your personal letter of 26th inst came to hand
this morning.

I am much obliged to you for what you have done in re-
lation to the payment, and hope that you will see that the check
is sent on to-morrow, (Friday). The remittance you name, - \$0,000
will materially assist me. I am just in that frame of mind to be
thankful for small mercies. I call a figure with about three
ciphers after it, a small mercy. You will notice I am modesty
itself.

Yours very truly,

A handwritten signature in dark ink, appearing to be the initials 'W.S.' followed by a stylized flourish.

Mch 27th, 64.

Arthur S. Beves, Esq.

Tiffin, Ohio.

Dear Sir:-

We have to-day written to Mr. Leonard, who is now at Middletown, asking him to take 4 pressure indicators which we have shipped to Middleton, over to you at Tiffin immediately they arrive at the former place.

Mr. Leonard understands these new indicators, and has the necessary instrument to standardize them. He will give you any explanation you may want as to the working of them.

Immediately the indicators are put up, please ship to Bergdamm & Co, the instruments you are now using for this purpose.

Yours truly,

Thos. A. Edison, Const. Dept.

By



March 27th, 04.

Geo. H. Bliss Esq.

Gen Supt. Western Edison Light Co.

Chicago Ill.

Dear Sir:-

Enclosed we beg to hand you plan showing the general arrangement of the Des Moines Central Station. This plan shows the position of the boilers and steam piping, and also the steam piping and exhaust piping which it would be necessary for us to erect. The broken lines show the position of the dynamos on the upper floor, and by referring to the side elevation a more comprehensive idea can be formed as to their position on the upper floor. We show the profile of the Fly Wheel as it is at present on the "Buckeye" engine in operation in this Station, and we also show the runner in which it must be altered to accomodate the two belts for the purpose of driving the 800 light dynamos we propose installing.

Yours truly,

Thos. A. Edison Constn. Dept.

By.



March 27th, 84.

A. Stuart, Esq.

Secy. Cincinnati, O.

Dear Sir:-

Our Mr. Rich has been in communication with the local people of Piqua with relation to the stack. We think he has adjusted the matter, by undertaking to ~~put~~ ^{put} up a stack, (specification of which he telegraphed to Piqua) for \$100. more than the amount stated in the estimate for the iron stack etc. The bid obtained by the Piqua Company ~~on the~~ ^{on the} brick stack, was, I think on something less than was necessary, ~~but~~ ^{but} I am only speaking from my own impressions.

I will write you exactly as to the matter as soon as Mr. Rich gets back to New York, which I think will be about next Monday.

Yours truly,



Mch 27th, 84.

A. Stuart, Esq.

Secretary, Cincinnati, O.

Dear Sir:-

Your favor of 25th inst came to hand this morning.

We think that Kirby's trouble with the wire at Middleton only applies to the particular lot of wire he had at the time he made the test. Your previous communication to us, was the first we heard of the matter, and we are now trying to get at the bottom of the trouble.

Our impression was that paragon cable was just the thing that was required for wiring, and the only difficulty in connection with it, was by the Insurance people. We will write you again however, when we have had a report from Mr Kirby.

Yours truly,

Thos. A. Edison, Const. Dept.

By



March 27th, 04.

A. Stuart Esq.

Soc'y. Ohio Edison Installation Co.
Cincinnati Ohio.

Dear Sir:-

Enclosed we beg to hand you our estimate No. 201 E. 3
for the increase of the Circleville Plant from 500 to 1000 lights,
together with specification of street installation, and chart show-
ing the course of the conductors when extended, the said estimate
amounting to \$12,515.63.

We have not sent any forms of agreement with this as
at present we presume they are unnecessary.

Yours truly,

Thos. A. Edison Constn. Dept.

By.

aej

March 27th, 84.

I. W. Serrell Esq.

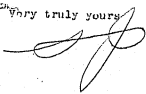
140 Nassau St. City.

Dear Sir:-

Can you tell me to whom you delivered Edison's German Telephone Patent No. 14308 dated Jan. 24th 1876, also No. 12631 dated July 12th 1876, also his Spanish dated May 16th 1876, his Belgian patent No. 45375 dated Jan. 8th 1876, and his Austrian Patent No. 43 dated Jan. 8th, 1876. Are they in the hands of your European Agents, or have they been delivered to Mr. Edison, is so can you give me the dates and who receipted for them. These patents are missing and I have to find them within the next week or so.

Apologizing for ~~trouble~~ I remain,

Very truly yours



March 27th, 04.

A. Stuart Esq.

Sec'y. Ohio Edison Installation Co.
Cincinnati Ohio.

Dear Sir:-

We beg to enclose herewith our estimate No. 122 for the installation of the "Block" plant in Cincinnati, amounting to \$16,952.68, together with specification of the proposed course of the street installation, and a chart of the district.

You will observe that we have made a note on the first page of this estimate to the effect that the local Company provides Stack and Flues for boilers, and also that they make all such alterations in the building as may be deemed necessary by the Superintendent of the work on our behalf. It was impossible for us to make an estimate for the Stack, as we were unaware of the height of these buildings, consequently we did not know how high we should have to run in order to reach the outer air, and furthermore we find from the canvass that there is a flue in the apartment you propose using for the machinery, and we take it that it connects with a stack. We are unaware as to whether this stack is large enough to accommodate the furnaces we should install, furthermore the height of the room, is such that an excavation 8 feet will have to be made over the whole area. We are unable to tell how deep the foundations of the building go, and also know nothing of the nature of the soil beneath the surface. It might be necessary to shore up the foundations of the building in order to make an excavation,

and on the other hand it may not. The nature of the information which it would be necessary for us to have in order to give you an estimate for all this work complete, is such that an ordinary contractor is incompetent to compile, and we could only trust an engineer's report for the purpose of making an estimate.

We will send you tomorrow a plan showing the arrangement of our proposed Station, and will also explain more fully why we are unable to give you the complete bid.

Yours truly,

Thos. A. Edison Constn. Dept.

By. 

Nov 28th, 84.

W. Garman, Esq.

Co C. B. Garman, Esq. 4 Astor House, City.

Dear Sir:-

The Edison Machine Works has been transferred to a corporation of that name, as per enclosed circular. All insurance should be immediately put into the name of the corporation.

Please do not delay this a moment, as I am advised that if we had a fire, we would have no claim for insurance so long as the policies stand in the name of Thomas, A. Edison.

Yours truly,



March 29th, 84.

Messrs. Drexel, Morgan & Co.

23 Wall St. City.

Dear Sir:-

I have received your letter of yesterday's date, and in reply beg to say that the reduction in the "B" shares that you speak of is perfectly satisfactory.

Yours truly,



March 29th, 04.

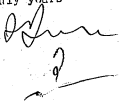
M. C. Melknap Esq.

Sec'y. Edison Elec. Ill. Co. Newburgh N. Y.

Dear Sir:-

We beg to acknowledge receipt of your letter of yesterday's date enclosing draft on Fourth National Bank for \$6000--
Please accept our thanks for this, and believe us to be,

Very truly yours



March 29th, 04.
M. C. Melknap Esq.
Sec'y. Edison Elec. Ill. Co. Newburgh N. Y.
Dear Sir:-
We beg to acknowledge receipt of your letter of yesterday's date enclosing draft on Fourth National Bank for \$6000--
Please accept our thanks for this, and believe us to be,
Very truly yours
M. C. Melknap

March 31st, 04.

W. J. Jenks Esq. Manager

Edison Elec. Ill. Co. Brockton Mass.

Dear Sir:-

We believe you are using 6 old style pressure indicators in connection with the Brockton Plant. We desire to obtain these, so that ~~they may be replaced~~ they may be replaced to conform with the new and improved design. Will you kindly send all of them, or as many as you can spare to Geo. Otto & Messrs. Bergmann & Co. 292 Ave. R. City.

Yours truly,

Thos. A. Edison Constr. Dept.

By.

*Returned
about one
month since*

March 31st, 84.

March 31st, 84.

S. B. Eaton Esq.

Trans't. Edison Elec. Light Co. City.

Dear Sir:-

Referring to your letters to myself, and the several manufacturing concerns which I control, and which arrived during my absence in Florida, I beg to inform you that I ^{would} prefer to postpone giving the information you ask for until I have had an opportunity of discussing the matters in question with Mr. Villard Chairman of the Committee appointed by your directors to consider the subject of ~~our~~ re-organization and of manufacturing.

Yours very truly,

W. H. Doolittle Esq.

March 31st, 84.

March 31st, 84.

J. M. Doubleday Esq.

c-o Edison Elec. Ill. Co. Shamokin Penna.

Dear Sir:-

We believe you have in Shamokin, 16 pressure indicators, 6 of which are the new style, and 10 old style. We desire to obtain these old indicators in order that we can have them altered, so as to conform to, the new and improved design. Please return them all, or as many as you can spare, as early as possible to John Ott c-o Messrs. Bergmann & Co. 1232 Ave. S. City.

Yours truly,

Thos. A. Edison Constr. Dept.

By.

T. A.
I returned 4/3/84
Ott notified 4/4/84
B&C order 1130

March 31st, 84.

W. D. Dwelly Esq. Treasurer,

Edison Elec. Ill. Co. Fall River Mass.

Dear Sir:-

We believe you have in Fall River 5 old style pressure indicators. We desire to obtain these so as to alter them to conform to the new and improved design. Will you kindly return all of them, or as many of them as you can spare to Jas. Ott & Co Messrs. Bergman & Co. 202 Ave. E. City.

Yours truly,

Thos. A. Edison Constr. Dept.

By.

*Returned
by order of Springuel
about a month since*

March 31st, 84.

W. H. Dwyer Esq.

Treas. Edison Elec. Ill. Co. Fall River Mass.

Dear Sir:-

In reply to your letter asking us to send you a volt box, wishing to say that we have given instructions for one to be forwarded immediately.

We enclose herewith a circular descriptive of the new potential indicators, and volt boxes, and which will assist your electrician in setting the indicators.

Yours truly,

Thos. A. Edison Constn. Dept.

By. 

March 31st, 04.

Geo. T. Parry Esq.

c-o Edison Elec. Ill. Co. Bellefonte Penna.

Dear Sir:-

You have on hand at Bellefonte one old style pressure indicator. Please return it at once to Geo. Ott c-o Messrs. Borchmann & Co. 292 Ave. E. City. We desire to alter it, and use it elsewhere, as the *Bellefonte* station is equipped with new style pressure indicators.

Yours truly,

Thos. A. Edison Constr. Dept.

By.



Recd by O.M. - 4/4/04

March 31st, 84.

H. Ward Leonard Esq.

c-o Edison Elec. Ill. Co. Middletown, Ohio

Dear Sir:-

There are 4 old style pressure indicators at Middletown which we desire to obtain so that we can alter them to conform to the new and improved design. Please send all of these, or as many as you can spare to Geo. Ott c-o Messrs. Bergmann & Co. 202 Ave. B. City.

The new indicators to replace these old ones were shipped to Middletown on the 25th inst, and we want to alter these ones for use elsewhere.

Yours truly,

Thos. A. Edison Constn. Dept.

BY.

27
Recd by Ott 4/7/84

March 31st, 84.

E. H. Lord Esq.

Treas. Edison Elec. Ill. Co. Lawrence Mass.

Dear Sir:-

We believe you have at Lawrence, 8 old style pressure indicators. We should like to obtain these for the purpose of altering them to conform to the new and improved design. Will you please return them, or as many as you can spare to Geo. Ott c/o Messrs. Bergmann & Co. 192 Ave. E. City.

Yours truly,

Thos. A. Edison Constn. Dept.

By. *[Signature]*

*6 shipped
4/12/84*

March 31st, 84.

Geo. T. Perry Esq.

c-o Edison Elec. Ill. Co. Bellefonte Penna.

Dear Sir:-

We are in receipt of your letter of the 28th inst, in reference to two sets of safety catches for No. 10, and 12 wire. This is rather a vague way of ordering safety catches, as there are so many different kinds. We can only presume that you desire them for house work, and have sent you plug safety catches. If you want anything else, please give a more accurate description, and we will send it:

Yours truly,

Thos. A. Edison Constr. Dept:

By. 

March 31st, 84.

H. W. Pratt Esq. Treasurer

Lubbock & Wilcox Co. City.

Dear Sir:-

Referring to your letter as to the prices asked for
by Mr. Stuart of Cincinnati, would you kindly oblige us by in-
structing your agents to quote list prices to him. I think he is
going to try and do his own work, instead of giving the contracts
to us. Whether he will succeed or not, *time will prove*

Yours truly,

Thos. A. Edison Constn. Dept.

By. 

March 31st, 04

Messrs. Bergmann & Co.

292 Ave. B. City.

Dear Sir:-

We desire to supply all our electrical exports with a complete set of your catalogues and supplements. Could you send us about 10 full sets in order to accomplish this. It will be very convenient for us as well as for yourselves to be enabled to specify all our orders the number of the article we desire to obtain as shown on the face of your issues.

Yours truly,

Thos. A. Edison Constn. Dept.

Fy.

asj

March 31st, 84.

A. Stuart Esq.

Soc'y. Ohio Edison Installation Co.

Dear Sir:-

In reply to your letter of the 29th inst. we beg to say that you are entirely mistaken in regard to the stack we propose building at Piqua. We propose erecting a ^{shaking} off brick 64 ft. high, base to extend to the top of building, 16 inches brick wall 6 ft. 2 inches square from base of building plumb to roof. From that point the stack will be 16 inches over the height of 23 ft. and the remaining 23 ft. 6 inches wall. The wall to be arranged with an independent inside circular flue running from bottom to top with 2 inch air space inside. You had better explain this matter to the Piqua gentlemen, as apparently they do not understand what we propose doing.

Yours truly.

Thos. A. Edison Constr. Dept.

By. *TA*

We find that Mr. Reed ^{made} the above proposition to the Piqua Co. on 21st inst by contract offering to build such a stack for \$1000 or over our present contract price *TA*

March 31st, 94.

Thos. SpencermEsq.

c-o Edison Elec. Ill. Co. Hazelton Penna.

Dear Sir:-

We believe you are using 6 old style pressure indicators in connection with the Hazelton Plant. We desire to alter these to conform to the new and improved design, and wish you would return all of them, or as many of them as you can spare to Jno. Ott c-o Messrs. Bergmann & Co. 292 Ave. B. City, and advise us when they go forward.

Yours truly,

Thos. A. Edison Constn. Spt.

By. *TS*

*Recd. by Jno Ott, as
noted in his favor Apl 4. -*

March 31st, 94.

A. L. Smith Esq.

Appleton Wis.

Dear Sir:-

Your letter of the 27th inst, arrived to-day. We will go into the matter, and send you the estimate you desire at the earliest possible moment. You may expect to hear from us in regard to Appleton very soon.

Yours truly,

Thos. A. Edison Constn. Dept.

By. 

March 31st, 84.

A. Stuart Esq.

Sec'y. Ohio Edison Installation Co.

Cincinnati Ohio.

Dear Sir:-

We beg to enclose herewith plan of the proposed Central Station for lighting the Cincinnati Block. You will observe in the elevation where the present floor line is, and you will also note that 77 inches over the whole area of the boiler room is necessary to be excavated in order to accommodate the boiler.

By reading our letter of the 23th inst, in connection with the plan we now send you, the difficulties in the way of our making a complete bid for this installation will be clearly presented. Kindly let us hear from you in regard to this matter as early as possible.

Yours truly,

Thos. A. Edison Constn. Opt.

By.



March 31st, 84.

William Schwank Esq. President

Edison Elec. Ill. Co. Mt. Carmel Penna.

Dear Sir:-

We believe you are using 2 old style pressure indicators in connection with the Mt. Carmel Plant. We desire to obtain these so that they may be altered to conform with the new and improved design. Please ship them to Jno. Ott & Co Messrs. Bergmann & Co, 202 Ave. E. City.

The new indicators to replace these old ones were sent you on the 26th inst, and Mr. Doubleday, one of our electrical experts in Shamokin, has instructions to go to Mt. Carmel and place them in service.

Yours truly,

Thos. A. Edison Const. Dept.

By. *EB*

Notified J. Ott
2/2/84
EB

April 2nd, 1894.

F. S. Hastings Esq Treasurer

Edison Elec. Light Co. City.

Dear Sir:-

We send you herewith estimate, specification of ^{build} ~~plant~~ ing, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Elec. Light Central Station Plant of 3200 lamps capacity at St. Paul Minn the said estimate amounting to \$92,656.45. This estimate is based on the present value of labor and material, and we hold ourselves in readiness to close it on the terms stated at any time within 60 days from the date hereof, but not after.

The local Company in executing the contract for the installation of a plant, should be careful to comply with the laws of the State of Minnesota. Meeting of the Board of Directors should be called and a resolution passed directing the officers named therein, (usually the President and Treasurer) to sign the contract on behalf of the Corporation, and affix thereto the Corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and administer oaths, and in the acknowledgements, should be incorporated an affidavit by the officers that they have signed the contract, and affixed to it the corporate

April 2nd, 1904.

A. S. Kissell Esq.

2413 Prairie Ave. Chicago Ill.

Dear Sir:-

We send you herewith estimate, specification of building, specification of street installation, chart of 'district,' plan of building, and contract for the installation of an Edison Elec. Light Central Station Plant of 500 lamps capacity at Knoxville Tenn the said estimate amounting to \$14,984.84. This estimate is based on the present value of labor and material, and we hold ourselves in readiness to close it on the terms stated at any time within 60 days from the date hereof, but not after.

The local Company in executing the contract for the installation of a plant should be careful to comply with the laws of the State of Tennessee. A meeting of the Board of Directors should be called and a resolution passed directing the officers named therein (usually the President and Treasurer) to sign the contract on behalf of the Corporation and affix thereto the Corporate seal. *Care should also* be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and administer oaths, and in the acknowledgment should be incorporated an affidavit by the officers that they have signed the contract and affixed to it the Corporate Seal, in and by virtue of a resolution of the Board of Directors.

authorizing them so to do; the form of acknowledgement to be such as the laws of the State of Tennessee require. The acknowledgement should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company, we will return a duplicate signed.

Yours truly,

Thos. A. Edison Constr. Dept.

By, 

April 3rd, 84.

W. S. Andrews Esq.

United States Hotel Newburgh N. Y.

Dear Sir:-

We are obliged for your letter of the 26th inst giving a summary of the daily running expenses of the Bellefonte Plant.

In regard to oil. Do they not filter it, and re-use it?

Yours truly,

Thos. A. Edison Constn. Dept.

By.



April 3rd, 84.

Chas. P. Lyon Esq.

~~Cameron House - Trenton N. Y.~~

Dear Sir:

In your canvass of York Penna. you have omitted to give the number of lights in the Cameron House which is a first class hotel. Have you ^{any} means of ascertaining how many lights they burn there now.

Yours truly,

Thos. A. Edison Constn. Dept.

By. *Lab*

April 3rd, 84.

H. Ward Leonard, Esq.

Middletown, Ohio.

Dear Sir:-

We have your favor of 1st inst, which has remained unanswered owing to pressure of business, consequent upon Mr. Edison's return to the city.

We presume Mr. Andrews will communicate with you in reference to the starting of the station.

He started Newburgh on Monday night, and the local people are wonderfully pleased with the results attained.

He left New York last evening for Pennsylvania, en route for Piqua and Middletown, so you will doubtless hear from him in course of a day or so.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

April 3rd, 84.

Henry A. Clarke Esq.

5 Moon Bdg. Baltimore Md.

Dear Sir:-

Replying to your letter of March 31st, we beg to say that our canvasser has been in Cumberland for about three days. We instructed him to report to Mr. Jas. S. Lambert as you request.

Yours truly,

Thos. A. Edison Constn. Dept

By 

April 3rd, 84

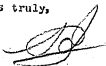
C. H. Cooke Esq.

Queen City Hotel Cumberland Hd.

Dear Sir:-

When sending your reports in to this office, will you be kind enough to number your sheets, and make an index of the blocks as you have been requested to do several times. In addition to placing at the top of the canvass the corner at which you start, also state at what corner you finish, and exercise care in regard to the points of the compass, which you sometimes get mixed up.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'S.D.' or similar, written in a cursive style.

April 3rd, 84.

Willis M. Stewart Esq.

Santiago Chili

Dear Sir:-

Enclosed I beg to hand you a letter from Mr. A. Espinosa an engineer in Lima who desires some information in regard to an electric light plant. I have told him that his letter has been referred to you for reply, and that you will communicate with him immediately.

Yours truly,



April 3rd, 84.

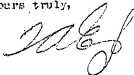
A. C. E. Sturges Esq.

113 New St. New Brunswick N. J.

Dear Sir:-

Replying to your letter of the 17th March, which has remained unanswered on account of my absence in Florida, I beg to say that J. T. Sprague on Electricity, and S. Thompson on the same subject will give you the information you desire.

Yours truly,



April 3rd, 84.

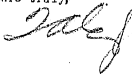
Floyd G. Cornish Esq.

Manlo Park N. J.

Dear Sir:-

Replying to your letter of the 19th March, I would say that you can refer any parties to me who desire information in regard to yourself personally.

Yours truly,

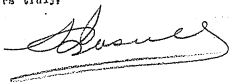


April 3rd, 84.

My Dear Kroust:-

I heard of a young man for you to day. Ernest has a brother who has been in business in a banking house in Stockholm for the last five years, and came over here at the request of his father. He is very anxious to get a position, is quite well posted, and speaks English thoroughly. Gen. Christensen of Messrs. Drexel Morgan & Co. knows all about him. Shall I send the young man down to see you.

Yours truly,

A handwritten signature in cursive script, appearing to read "James", is written over a horizontal line.

Answer?.

April 3rd, 1914.

My dear Fruesi:-

This will introduce to you Mr. Bergman, about whom I write you this morning.

I would suggest that you have a talk with him, and then you might go and see Gen Christensen, or if you like, I will make any enquiries you may desire me to. However, from what Ernest tells me, I think his Brother would suit you exactly.

Yours very truly,



John Fruesi, Esq.

New York.

April 3rd. 84.

A. Stuart, Esq.

Secy. Cincinnati, O.

Dear Sir:-

We have your favor of ~~with~~ ult, which we left unanswered in order to get Mr. Edison's personal views on the subject.

We think it would be better for you to deal with Mr. Ward's enquiries yourself, in as much as you have the business in hand.

We shall be interested to see the outcome of the experiment you are trying at Circleville. If you wish us to do any of the work, we will give you an estimate for any part of it which you may not desire to do yourselves.

Some experiments have been conducted at Borgmann's with the Joel-Filson lamp. We think Major Eaton is posted on the matter and would suggest that you enter into correspondence with him.

Yours truly,

Thos. A. Edison, Const. Dept.

A handwritten signature in dark ink, appearing to be 'T. A. Edison', written over a horizontal line.

April 3rd. 04.

A. Stuart, Esq.

Secy. Cincinnati. O.

Dear Sir:-

Referring to your letter of 1st inst, we beg to state that we are doing everything possible to finish up the work at Tiffin. Matters that could be fixed locally, were attended to by Mr. Rich, who was in Tiffin sometime back. There are certain instruments in connection with the electrical work, which we cannot send until finished. These instruments are now being tested and immediately we have are absolutely satisfied with the results, we will do everything in our power to have them placed in Tiffin at the earliest possible moment. We can assure you that nothing will be wanting on our part to close the matter up.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

Apr 3rd, 04.

G. A. Shaw, Esq.

Evening Telegram, Herald Building, City.

Dear Sir:-

Mr. Edison has returned from Florida, and he informs me that he did not receive any of the letters which I sent him, relating to your enquiries about electrical launches. They must have miscarried in the mail, which I very much regret.

Can you make it convenient to drop in and see Mr. Edison sometime when you are passing this way? If so, I am sure he will be happy to give you the information you desire.

Yours truly,



April 3rd, 84

J. S. Wells Esq.

School of Mines Columbia College
48th St. & 4th Ave. City.

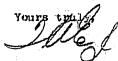
Dear Sir:-

Your letter of Feb. 25th has remained unanswered on account of my absence in Florida.

If you mean depositing from one plate of copper on another plate or metallic surface, then the size of the dynamo would depend upon the ^{area} ~~area~~ exposed. With any given current the amount of copper deposited will be at the square of the surface.

Our GO light machine can be altered to give 8 volts and 750 amperes Price \$1300- From this data you can calculate what you can do.

Yours truly



April 3rd, 84.

Geo. W. Wilber Esq.

Morris House Troy Ohio.

Dear Sir:-

We find that it is impossible to telegraph you money, as there is no agency in Troy. Enclosed we hand you our check No. 864 for \$50-. Please sign and return the enclosed receipt.

It would be well for you to notify us when you require money before you run out, as in this case at least it would have saved a delay of two or three days.

Yours truly,

Thos. A. Edison Constn. Dept.

By. 

April 3rd, 04.

Western Edison Light Co.



53 Wabash Ave. Chicago, Ill.

Dear Sirs:-

I have your favor of 13th ult, which remained unanswered owing to my absence in Florida.

In reply I beg to state that the current can be used for the purpose you speak of. The best way is, to mix the copper ore with coke, and run it into plates of black matter. Then the copper can be deposited pure, and the gold and silver remain in the mud. This can be done in the daytime at a Central Station of any size. I am now experimenting in this matter, and have six vats made in order to put my ideas into practice.

Yours truly,



April 3rd, 04.

S. Ward Esq.

c-o Commercial Union Assurance Co.
Circleville Ohio.

Dear Sir:-

Replying to your letter of the 24th March, we beg to say that you can easily light the lamps on the lines of our mains by making connection from stores, or from the mains themselves over to the posts, and the lamps can be turned on and off the same as gas. We should not advise your undertaking street lighting until your station has been in operation at least a year, and you have sold the private consumers all the light you possibly can, after this you could figure and bid on street lighting.

In relation to the arc light. It is being abandoned as municipalities will not pay for more than 10 or 15 candles, except for the period during which the light is a novelty.

Yours truly

Thos. A. Edison Consty. Dept.

By. 

April 3rd. 34.

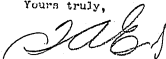
J. H. Millikon, Esq.

114 Devonshire St. Boston, Mass.

Dear Sir:-

Will you please send me one dozen copies of the
"dot and dash" poem you speak of, together with bill for same.

Yours truly,



April 3rd. 1914.

Louis Rau, Esq.

Societe Electrique Edison.

33 Ave de l'Opera, Paris, France.

Dear Mr. Rau:-

This will introduce to you, my friend Mr. A. G. King of Boston, who is connected with the Electric Light business in this country.

Anything you can do for him during his stay in Paris, will be very much appreciated.

Very sincerely yours,



April 3rd. 04.

Major Flood Page.

Secretary. Edison & Swan United Electric Light Co.

87 Holborn Viaduct. London, E.C.

My dear Major Flood Page:-

This will introduce to you, my friend
Mr. A. G. Ping, of Boston, who is connected with the Electric Light
business in this country.

Anything you can do for him, during his stay in London
will be very much appreciated.

Very sincerely yours,

A handwritten signature in dark ink, consisting of a series of loops and a long horizontal stroke, positioned below the typed name.

April 3rd, 04.

J. E. Kingsbury, Esq.

Western Electric Company.

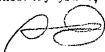
39 Moorgate St. London. England.

My dear Kingsbury:-

This will introduce to you my friend, Mr.
A. G. King, of Boston.

If you can do anything at all for him during his stay
in London, please consider me the debtor, to be wiped off when
you make that long promised visit to New York.

Very sincerely yours,



P. S.

I do not propose to write you another letter, until you
write to me. Probably this will achieve just what you want.

April 3rd, 84.

A. G. King Esq.

Portland, Me.

Dear Sir:-

In answer to your various communications in regard to Portland, we beg to submit the following, and in compliance with your request for further figures we send herewith an estimate prepared in accordance with your ideas as to the route of the conductors.

It is only possible to run overhead conductors to a very limited extent in Portland, as in the residential part of the city there are many trees, and these prevent the installation of a pole line system. It would be possible to combine the overhead and underground systems, but as the greater part of the installation has of necessity to be laid underground, it would be advisable for a permanent investment to have a uniform installation throughout, and for this reason the bid which we now enclose is made upon the assumption that the underground system will be adopted.

Our reasons for stating that it is advisable to have a uniform system will no doubt be readily discerned by you.

In the case of a combined aerial and underground system the annual percentage chargeable for depreciation will be larger

✓

than if underground conductors alone are utilized, and as compared to an underground system, there are objections to aerial conductors with which no doubt you are yourself so familiar, that it will be unnecessary for us to dwell longer upon this point.

Our reason for not running the lines on both sides of Middle Street, was that we desired to furnish an estimate for a 1600 light plant. It was therefore unnecessary to have more than 1900 lights in the district at the outside, and had we taken in the opposite side of the street referred to, we should have covered about 2300 lights, thereby making the cost of the 1600 light plant excessive.

"STATEMENT OF PROFITS" We are not quite clear as to what statement of profits you refer to, but all which have been prepared in our office show per-cents for dividends upon the capital necessary to the formation of the Company, and in no case upon the cost of the installation alone.

We remarked the marginal notes upon our contract returned with your communication, and we think that an explanation in view of your remark that the Portland Company refuse to sign any such document, would at this moment be in order.

The first objection taken is to the clause "REMOVAL OF OBSTRUCTIONS", and the question is asked as to what is meant by the

word obstruction. In the paragraph in question the word referred to cannot be considered as meaning "Rock", or any of the obstacles usually met with in excavating. Such obstacles would in no case prevent the contractor from erecting poles or laying ~~wires~~. Obstructions within the meaning of the clause in question are only such as prevent the execution of the work, and the use of the word "prevent" defines the meaning to be given it.

The contractor must rely on two things. First that he is to have the right to lay tubes, or erect poles along the route described. Second that he is not to be prevented from doing so by reason of any obstruction existing along such route. The clause is intended to provide for cases that the Construction Department may encounter in the installation of plants viz. the occupation of the streets by other structures to such an extent as to prevent the laying of tubes, or erection of poles and running of wires.

The contractor ^{cannot be presumed to know the exact} condition of every street in every town for which he contracts to run his conductors, and must assume that he is to meet only with such obstacles as are usually encountered, and which will permit the execution of his contract. It might happen that vaults, pipes or other structures occupy the streets to such an extent that the laying of tubes would be an impossibility, or that trees, poles

so occupy the space above the surface that wires could not be strung. These would be obstructions within the meaning of the contract.

In view of the business in which the Construction Dept. is engaged, the possibility in question should be provided for, and the clause as written is very favorable to the local Company; if such obstructions are encountered it is made their duty to remove them, but if they fail in this, then the obligation is imposed on the contractor to either remove the obstruction or avoid it as he may deem best. It is only when he is unable, or deems it inadvisable to do either that he has the right to terminate work, and we would point out that this right is only given to the contractor after the Company have been guilty of a duplicate breach of their agreement, the first when the obstruction was met with, and the second when they (the Company) failed to remove it.

The next objection is taken to the clause ^{Change} "FOR BREACH OF CONTRACT". It is not stated whether the objection in this case refers to the limit placed upon the Company's default in payments, or the amounts to be retained as liquidated damages by the contractor in case of such default. If the former, the five days need not be an arbitrary limit, but can no doubt be satisfactorily adjusted by the parties to the agreement. If the latter

5

it is only necessary for anyone desiring the information to make out an estimate of what it would cost the contractor to bring an installation to a partial or final state of completion, and then be obliged to remove it on account of non-payment on the part of the Company, in order to ascertain that the amounts retained are but sufficient to cover the cost of such removal, and recompense the contractor for the damages he would sustain under such circumstances. We would beg to add, that in addition to the damages sustained by the contractor, and the expense above referred to, it might be well for an enquirer to consider the effect ~~of such a contingency~~ such a contingency on the future work of the contractor. The fact of having had to remove an installation would be seized by rival Companies and used as capital against the Edison Light, and there is hardly any doubt that such Companies would withhold the real cause of the removal, and apply theories of their own.

That the contractor would sustain severe damages in a case of this nature, cannot be questioned, and any amount he might retain would but slightly recompense him for his combined loss of work in hand and work in prospective. Again in discussing this agreement the reciprocal relations of the contracting parties must be carefully considered. The contractor is tangible, and can be reached by a judgement in case of the failure to perform his part

of the agreement, and while objection may be raised to calling a Corporation intangible, it is virtually the case. We are aware of course of the possibility of obtaining a judgment against a Company, but where their subscription list represents their capital and no property of any value is in their possession the chances of executing such judgment are very slight. It is a repeated occurrence, as you are no doubt aware for persons to subscribe to the stock of a Company without themselves possessing the necessary amount of money to meet their obligation. In the personnel of a Company there may be many responsible men, but the extent of their liability in the event of a judgment against the Corporation is represented only by the amount set opposite their names on the subscription list, and for these and like reasons the contractor ~~must~~ should be protected in his agreement in such a manner as to provide for all emergencies without appealing to, and depending upon a judiciary for equity.

If any of the gentlemen ^{representing} ~~representing~~ the Portland Company will come forward and guarantee our contract we shall be quite willing to enter into an ordinary business agreement, but where we are dealing with an invisible body, we consider our agreement a most ^{reasonable} ~~reasonable~~ one. A discussion in person with the Portland gentlemen would enable us to more clearly explain the points in

question, but we think the reasons given will show them that the clauses they object to are perfectly fair, as well to the Company to as the contractor.

Yours truly,

Thos. A. Edison Const. Dept.

By

April 3rd, 84.

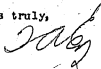
W. S. Kennedy Esq.

Belmont Mass.

Dear Sir:-

Your letter of March 10th, has remained unanswered on account of my absence in Florida. I shall be very happy to send you all the electrotypes ^{I have} of electric engines etc for use in connection with the book you are writing.

Yours truly,



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April 3rd, 84.

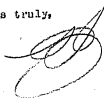
Philip Klein Esq, Secretary

Messrs. Bergmann & Co. City.

Dear Sir:-

I beg to acknowledge receipt of your letter, enclosing 908 shares of stock of Bergmann & Co, in the name of Thos. A. Edison. I return you herewith certificate for 100 shares, which please have transferred immediately to the name of Charles Batchelor, and send certificate to me. Mr. Batchelor's address should be registered Manlo Park N. J.

Yours truly,

A handwritten signature in dark ink, consisting of several overlapping loops and a long horizontal stroke at the end, positioned below the typed text.

April 3rd, 88.

W. L. Garrison Esq. Treasurer.

Boston Mass.

Dear Sir:-

In reply to your letter of March 6th, which has remained unanswered on account of my absence in Florida, it is with much regret that I am compelled to say that it will be impossible for me to enter into the arrangement you suggest, namely, to furnish you with two "H" dynamos, and accept payment by taking stock in the Brockton Company. I can assure you that it would give me very great pleasure to comply with your wishes in this matter, but as the state of my business will not permit it, I have with reluctance to accept the fact and govern myself accordingly.

In regard to the dynamo still outstanding on our books against your Company, if you will let me know how much time you desire before making this payment, I will do all I can to meet your wishes. Believe me to be,

Very truly yours,

W. L. Garrison

April 4th, 04

Edison Elec. Light Co.

P. S. Hastings Esq. Treas. City.

Dear Sirs:-

We are in receipt of your letter of the 3rd inst, authorizing us to canvass a few blocks in Brooklyn. As you request we will send our canvasser to Mr. Spencer Trask 70 Broadway, who will give him instructions as to the district.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 4th, 84.

Paul D. Dyer Esq.

Aldrich House Providence R. I.

Dear Sir:-

We are in receipt of your letter of the 2nd inst.

We know that Grimshaw is in Richmond, but he has not advised us of his hotel address, and we consequently unable to send him a telegram.

We wired you to day to come to New York when you finish Providence, and to bring Grimshaw and Moore with you. We want a canvass made of a portion of Brooklyn, and these men can assist you.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 4th 84

Messrs. P. B. Grider & Son.

Bellefonte Penna.

Dear Sirs:-

Referring to your letter of March 28th, and to the bill you enclosed for \$52.50 for brick and other material supplied by J. Wallace, we find from a conversation with our Superintendent "Mr. Rich" that the party that he (Mr. Rich) contracted with for the brick work in connection with the Bellefonte station was being supplied with brick by Mr. Wallace. This latter person running short of material obtained what he required from you, and such material is shown on the face of the invoice that we now return. Under the circumstances, we have no authority whatever to pay this bill, and you must arrange with Mr. Wallace for settlement, or else with the person Mr. Rich contracted with for the brick work of the Station.

Yours truly,

Thos. A. Edison Constr. Dept.

By

April 4th, 84.

W. S. Andrews Esq.

c-o Edison Elec. Ill. Co. Middletown Ohio.

Dear Sir:-

Replying to your letter of the 2nd inst, we beg to say that we agree with you in thinking that it would be a good idea to put feeder safety catches and lead strips of sufficient size in the leading wires of two or more dynamos running in multiple arc. We have therefore ordered to Newburgh 4 old style feeder safety catches.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 4th, 84.

H. Ward Leonard Esq.

c-o Edison Elec. Ill. Co. Middletown Ohio.

Dear Sir:-

Enclosed we beg to hand you map of the Middletown system, together with a table showing how the wires should run.

The german silver resistance mentioned, and which is to be used in connection with feeder No. 2 will be sent forward in a day or so.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 4th, 84.

W. F. Patton Esq.

Pennsylvania Elec. Light Co.
Harrisburgh Penna.

Dear Sir:-

Your letter of March 27th addressed to the Edison Elec. Light Co. has been referred to us for reply.

In regard to driving two 400 LC candle lamp dynamos with a 9¹/₂X12 engine, which latter has as you state a nominal rating of 48 horse power, we beg to say that this indicated efficiency is arrived at by presuming circumstances entirely different to those which surround the operation of the engine in connection with one of our Elec. Light Plants. In stead of using 100 pounds boiler pressure we use 125 pounds, and we have a special pulley 57 inches in diameter on the engine, and pulleys 12 inches diameter on the dynamos. With these conditions it is necessary for the engine to run at about 300 revolution per minute, to bring the dynamos up to their proper speed, and cutting off at about 14 stroke over 80 h.p. is developed by the engine. We have a number of these 9¹/₂ X 12 engines in service, and doing the work which we propose accomplishing at Harrisburgh, with the same machine, so that our knowledge has been gained from practice.

Yours truly,

April 5th. 94.

Reginald Franklyn. Esq.

55 and 57 Pine Street. New York.

My dear Franklyn:-

On my return ^{from Europe} ~~from Florida~~ that my people here had renewed our contract with relation to our fire insurance, and had fixed matters in such a way that it is absolutely impossible for me to turn it over to you as I had intended. Had they known I had any such intention, they would have kept the matter open until my return.

Hoping we may be able to do some business in this connection at some future date, I remain,

Yours truly,

JACF

April 5th. 04.

S. B. Eaton. Esq.

President. E. E. L. Co. New York.

Dear Sir:-

Referring to your favor of April 1st, I beg to inform you that I have never authorized an Agent by the name of Adams to represent me, of the Edison Electric Light Co, in Mexico.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'S.B.E.' with a flourish extending to the right.

April 5th. 94.

H. M. Doubleday, Esq.

Dear Sir:-

Will you please oblige us by going to Mount Carmel, and report to us on the exact condition of the Plant there?

If you have seen Mr. Andrews since he left here, and if he has been there, there will be no necessity for your making this trip, unless he has spoken to you in relation to the matter.

We understand that the amperes meter at Sunbury is broken. Is this so? We also understand that the Sunbury people have discarded the use of their meters.

Please advise us as early as possible in relation to these various matters.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

April 5th, 84

Paul D. Dyer Esq.

Aldrich House Providence R. I.

Dear Sir:-

We are in receipt of your letter of the 3rd inst, stating that you and Moore will return here next Thursday morning.

Grimshaw informs us that his canvass of Richmond will be completed to day, so that he may return here at any moment.

Enclosed we beg to hand you our check No for \$50- on account of expenses. Please sign and return the enclosed receipt.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 5th. 04.

W. S. Andrews, Esq.

Dear Sir:-

Mr Edison has read your memo with relation to horse power required at Stations, owing to drop of feeders and other causes, and in reply he says, "You do not probably catch on to the fact, that the first investment is the trouble in pushing our business. The local people must suffer a continuous loss in operating their Station owing to their lack of confidence in our business. We are fully aware that even east where coal is dear, five per cent is the most that should be lost with our system; yet, we are just as fully aware that it would be an absolute impossibility for us to start a Company, if we put the necessary amount of copper in to prevent any further loss, than five per cent. We long ago made a curve to illustrate ~~the~~ the critical point between ~~loss~~ the cost of coal, and interest on copper investments. When the public has gained confidence in Electric Lighting as a permanent investment, we shall doubtless be able to carry out the ideas which the curve referred to would seem to indicate are the correct ones.

Yours truly,



April 9th. 04:

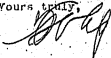
W. S. Andrews. Esq.

Dear Sir:-

Referring to your favor of March 3rd, Mr. Edison states that " the 9, 1-2 X 12 engine is rated by Arrington & Sims at 300 revolutions, cutting off at "1-4" with 100 pounds ~~of steam~~ ^{to develop} 40 7-10 horse power. As the Arrington & Sims Company guarantee their engine parts to stand 150 pounds pressure, and as it has always been intended to carry 120 pounds in our boilers, no matter what the load is, it is easily seen that with their own guarantee the engine will give ⁹⁰ ~~60~~ H. P. and cut off at "1-4". Even with this guarantee, the strain on the Arrington & Sims engine parts, according to size, is six times less than on a Baldwin Passenger Locomotive, indicating 750 H. P.

The A & S Co sell the 11 1-2 X 10 engine to run at 325 revolutions, 100 pounds pressure to develop 40 7-10 H. P.. I guess, you are talking about the wrong engine?.

Yours truly,



April 5th. 184.

W. S. Andrews. Esq.

Dear Sir:-

Major Eaton has again repeated the statement that the Hazleton Plant was started with out any previous test of the engine or dynamo being made. That is; when the steam was first put on the Plant, lamps outside were already connected.

Yours truly,

Thos. A. Edison. Const. Dept.

By



April 5th. 84.

W. H. Prosser, Esq.

General Post Office, London, England.

My dear Prosser:-

Your letter of 26th Jan'y came to hand while I was absent in Florida; hence the delay in answering same.

I will endeavour to get up some paper on some new things of mine, if you will undertake to read it. I could never undertake the task myself, as if I did, I am sure I would never get within three miles of the meeting, as the idea of having to say anything before an audience would simply scare me.

Yours truly,



April 5th. 184.

A. B. Pearce. Esq. Secy'

~~of~~ Union Bolt Works. Paterson. N. J.

Dear Sir:-

Will you kindly give me a call the next time you are in Town. I would like, to see you with relation to the offer that Mr. Dean made you of work, provided you gave him a commission.

Dean is giving us trouble, and has brough a suit against us, and an affidavit from you would in all probability be of great assistance to us.

Yours truly,



April 5th, 84

M. C. Melknap Esq. Sec'y. Treas.

Edison Elec. Ill. Co. Newburgh N. Y.

Dear Sir:-

We beg to acknowledge with many thanks receipt of your favor of the 4th inst, enclosing draft on the Fourth National Bank of New York for \$5,500. completing the second payment of 50 per cent on our contract due when the station was ready to supply light We enclose receipt for same.

We are pleased to hear of the satisfactory condition of the light. We wired you this morning to the effect that the lamps you ordered on Tuesday last were expressed yesterday, we presume you received them this morning.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 5th 84

Arthur S. Deves Esq.

Edison Elec. Ill. Co. Tiffin Ohio.

Dear Sir:-

Will you kindly send me 50 copies of the Tiffin Daily Herald for March 29th 84. If not possible to get 50, kindly send me as many as you can, together with bill for same, and greatly oblige,

Yours very truly,

April 5th. 04.

C. H. Campbell. Esq.

Present.

Please get me up a plan showing the best method of putting in say 1000, 1500, 2000, 2500, and 3000 light (10 candle power) Plants. The engine to be used should be 1:1-2 X 13, and the dynamo a "H" machine; calculating to take out say 400 lights from each machine.

\$7 Insull.
per McG.

April 5th. 94.

Compagnie Continentale Edison.

31 Ave de l'Opera. Paris. France.

Dear Sirs:-

Your favor of 30th Jany came to hand while I was absent in Florida.

I very much regret that your Italian Company should have got into trouble with my friends in Geneva who control my Electric Light interests for that country. I have letters from my Geneva friends absolutely denying the statements made by the Milan Committee. Under the circumstances, I am placed in somewhat of an awkward position, in as much as I have no reason whatever to doubt the accuracy of the statements of either party, and my entering into the matter would have no other result than that of drawing me into a quarrel which ought to be settled locally.

My Geneva friends advise me that it is their intention to respect the rights of other European parties who hold my patents, but at the same time, they state that they are constantly met with the difficulty that your German Co, through their agents are willing to sell Electric Lighting apparatus in Switzerland.

I must confess that I think that if the Geneva Co. had been approached in a manner not quite so severe as that indicated by the correspondence of the Milan Committee, the whole question would have been settled without any trouble whatever.

Yours truly,



April 25th. 94.

Societa d'Appareillage Electrique.

3 Boulevard du Theatre. Geneva. Switzerland.

Dear Sirs:-

I have your favor of the 2nd ult, with regard to the trouble you have had with the Milan Company, and I very much regret that they should address you in the manner in which they did.

I do not doubt but that it is your intention to fully respect the rights of the Italian Company, and, I have written to the Compagnie Continentale to this effect.

I cannot understand why the German Co. should endeavour to do business in your territory, and I have asked the Compagnie Continentale for an explanation.

Referring to your enquiry as to what articles you should furnish outside of Switzerland, and what you should not, I should very much prefer not to enter into this question, as I am afraid by so doing I would only complicate matters.

Naturally
The Italian Company [^]only desire to make a profit on all articles in connection with the Edison system, and should you supply any of them in competition with them, they will naturally protest against your so doing. I think that more friendly relations would be fostered by your not endeavouring to enter into competition with them, even in connection with such articles as

you claim are not patented. At all events, I would much prefer not to be the judge as to what you should, and what you should not export, as should I place myself in the position you ask me to, the only result would be a controversy between myself and the Italian Company.

Yours truly,

April 5th. 84.

Thos Spencer, Esq.

Hazleton, Pa.

Dear Sir:-

Will you please inform what coal is now being used at Hazleton, what price is paid for it, and whether there is any trouble in getting a good draft. Whether the blower and small engine sent to Hazleton has been working, and if not, when will it be? When it has been erected, will you please send a full report as to the condition of the draft?

Yours truly,

Thos..A. Edison, Const. Supt.

By 

April 5th. 04.

Secretary,

Edison & Swan United Electric Light Co.

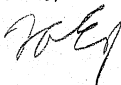
57 Holborn Viaduct. London. E. C. England.

Dear Sir:-

Referring to your favor of 23th Jan'y, which was received during my absence in Florida, I beg to inform you that I shall be glad to quote you prices for machines of any capacity and of any reasonable speed, provided you will specify exactly what you require.

If you will please send me a statement of the number of lights you desire to get out of the dynamo, size that it is to be, and the speed at which it must be run, I will send you figures by the return mail. Meantime, I will have some preliminary figures made on the basis of what little data I find contained in your above referred to letter.

Yours truly,



April 5th. 64.

Hussey
M. I. M. ~~Hubbard~~ Esq.

Menlo Park. N. J.

Dear Sir:-

Referring to your favor of 21st ult, which came to hand during my absence in Florida, I will rent you the old Lamp factory for \$75. per year.

Truly yours,

A handwritten signature in dark ink, appearing to be 'Hussey', written in a cursive style.

April 5th, 84

H. Rice Esq.

Palma Sola. Fla.

Dear Sir:-

Referring to your favor, asking whether I have a lamp for use under water, I beg to inform you that at this writing I have not one, but I am going to get up such a lamp, and go down to Tampa and Punta Rassa next winter, and fish with the aid of same.

Yours truly,

April 5th. 84.

W. D. Rich. Esq.

Dear Sir:-


We are informed that the Hazleton engine stood out unprotected from the weather for five weeks, and that after it was put on the foundation it was never cleaned before the Plant was started, and also that the Plant was started without any previous test of the efficiency of the same being made.

Please inform us if this is so, and if so, the reasons for same.

There are also complaints as to rafters in the roof being too small, and to their being no gutter on one side of the building.

Yours truly,

Thos. A. Edison, Const. Dept.



April 5th. 04.

Hiram Hains. Esq.

Harlan. Allan Co. Ind.

Dear Sir:-

Referring to your favor of 29th inst, I beg to say
that I am constantly working against the various piratical ~~articles~~ ^{bill}
as to patents.

I think it would be a good thing for the recent Inventors
Organization to carry the matter into the newspapers.

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke, positioned below the text "Yours truly,".

April 26. 34.

Messrs McPherson, Willard & Co.

Bordentown, N. J.

Dear Sirs:-

I would very much like to see your Mr Willard the next time he is in the city, with relation to the amount of commission paid by you to Mr Dean. If Mr Willard can inform me as to the exact amount, it will be a great favor.

Yours truly,

A handwritten signature in dark ink, appearing to be 'W. J. Dean', written over the typed name 'W. J. Dean'.

April 5th, 04

W. J. Jenks Esq. Manager

Edison Elec. Ill. Co. Brockton Mass.

Dear Sir:-

We are in receipt of your letter of the 1st inst
requesting us to send you 150 10 candle power lamps of 106 volts,
as arranged with your Mr Garrison, in consideration of excessive
breakage. Please accept our apology for the oversight in not
sending these before. They will go forward at once.

Believe us to be

Yours very truly,

Thos. A. Edison Consth. Dept.

.By 

April 5th. 84.

John. B. Verity. Esq.

Co B. Verity & Sons. London. England.

My dear Verity:-

Your letter of 18th March came to hand a few days ago. I held it, as I wished to speak to Mr Edison about the matter, and he was away in Florida. I am going to get him to write a letter to Major Flood Page, urging that some arrangement should be made with you. This letter will go off by either this or the next mail.

We do not use steam dynamos for isolated business. What you should use is a 14 1/2 X 13 engine, running at about 250 or 275 revolutions per minute, and belt direct on to two "H" dynamos without any countershafting at all. This would be a better and more reliable. I will send you a plan showing how much space this engine and dynamos take up. If you want to run one machine in the daytime, put in a smaller engine with one machine attached.

We estimate that 7 3/4 lamps are attained per horse power in actual practice. I presume that the 6 lamps you speak of was simply taken as a rough calculation.

All our prices are quoted to you P. O. B. New York, so that all you have to figure on is Insurance and freight. Thirty shillings per ton will cover the freight, but I do not know exactly what the insurance will be. By next mail I will send you a re-

2.

3.

-vised price list, quoting prices delivered in London.

Mr. Edison is very anxious indeed that the arrangement you propose should be made by the Edison & Swan Company, and I assure you that everything will be done, on this side that is possible, to assist you.

I will get up plans for a 2000 and a 3000 light plant, and send them on to you early next week, and I will also state what I would ship the stuff from New York for.

In installing an Isolated Plant, you should be careful to only put in capacity for the maximum number of lights that will be burning at any one time. That is; suppose the Grand Hotel requires 3000 lights, (I mean, wire and outlets for 3000 lights) they could not burn these 3000 lights all at the same time. Perhaps the average would be below 2000, in which case your plant should have a capacity of 1500 or 2000, otherwise, you would have 1500 or 1000 lights more than would ever be required. To explain more fully what I mean, I may say that down town in New York, we have 10000 lights wired for in our district, and the absolute capacity of our Plant is only 6000 lights. The maximum call upon us for lights is about 5500. Now, if every single light in our district was to be turned on at one time, the whole snap would be busted (to use Americanism), that is; part of New York would be turned into darkness, as we have not got a plant sufficient to carry 10000 lights. But it would require an effort on the part of the Almighty to get the whole lot of lights burning at one time, consequently, we feel perfectly safe so long as we are able to take

care of 5 or 6000 lights. I may mention incidentally, that we are now enlarging the capacity of our Plant, so that in about a month we will be able to take on 2400 more lights, which will bring the capacity of the Station up to about 8500 lights. As soon as this work is finished, we will be in a position to supply the demands of about 150 applicants whom we are unable to supply at the present moment. Then, a little later we are going to improve the machines in our Station, and add another 1200 lights to its capacity, simply by a small improvement which will not cost more than 5 or 600 Pounds for the whole outfit.

If you find it impossible to make any arrangements with the London Company, that is, of a permanent character, why not try and make a dickie with them for each particular plant you want put in. If their terms should be so onerous as to prevent your making money on your plants, it is just possible that we might be able to make you a little better prices, as we do not want to make money out of our machinery, unless you can make something out of the installation of same. We are very anxious to see our machines operating in London, and put in the shape they would be, if Varsity & Sons had charge of the work, with Malloway as their Engineer.

I was up to Johnson's house the other night. Mrs Johnson has been sick. She has either had a swollen sore throat or mumps, or some other complaint to which human flesh falls victim.

We have been having most horrible weather in New York of

4.
late, In fact, I think I must have bottled up a lot of the London weather. , To-day is "just too lovely for anything", as a gushing New Yorker would say.

Hoping that you will be able to do something in this isolated business, and with best regards to all the people at Moorcroft,

Believe me, very sincerely yours,

April 7th, 04

W. L. Garrison Esq.

Boston Mass.

Dear Sir:-

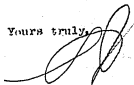
I received your favor of the 4th April. I very much regret not to be able to satisfy you by taking stock in your local Company. It is simply a question of working capital, and I have not the working capital which would justify me in doing what you wish me to.

We will supply you with the dynamo you require, and give you a six months credit on same, together with the one which you now have. Will this be satisfactory to you? We should require to have the right to call upon you for paper for the amount of the account at any time during the six months, this paper to fall due at the same time that the account would be due should the dynamos remain in open account.

We very much regret that you should have been put to the expense of \$2000- in exchanging the dynamos, but at the time your station was built we planned same to the best of our knowledge, at that time, subsequent experience proved that our plans could be improved. If we had had the experience at the time we contracted to put up your plant, that we have to day, our estimate would have been, even if made on the basis of absolute cost, about \$2,500 more than the amount of our contract with you, this sum of \$2,500 representing our loss on the work.

I should very much like to see you with relation to your station, as I understand that you are very much dissatisfied with our Construction Dept. and I wish to know the cause of the dissatisfaction. Will you please advise me when you will be in New York again?

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke, positioned below the typed name.

April 7th, 84

C. H. Cooke Esq.

H. Garstown Hd.

Dear Sir:-

Having received many complaints from our Map Dept. in relation to the inaccuracy of your canvasses, we requested them to give us in detail those in connection with your canvass of Springfield Mass. They are as follows:-

- Block 21 dimensions of City Hotel omitted.
- " 23 should be block 33.
- " 40 you state "corner Temple at High St". This cannot be as the streets are parallel.
- Block 63 you state "High St at Union". This is impossible as these streets are parallel.
- Block 34 On map you call this block No. 34, and on the canvass it is called No. 34 and 63.
- Block 35 designated on canvass as 56 and 59. The complaint further states that you never go around a block in the regular manner, thereby making it very difficult to trace your canvasses. Will you kindly send us an explanation in regard to these matters.

Yours truly,

Thos. A. Edison Constr. Dept.

By 

April 8th. 84.

Edison Lamp Co.

East Newark. N. J.

Dear Sirs:-

I beg to advise you that I have agreed to let Mr. P. S. Dyer have one per cent interest in the Lamp factory, on the same basis as that already agreed upon as to Lawson, Howell, and Bradley.

Yours truly,

A handwritten signature in cursive script, appearing to be 'J. E.', is written over the typed words 'Yours truly,'.

April 6th, 84.

P. S. Dyer, Esq.,

Edison Lamp Co. East Newark, N. J.

Dear Sir:-

Referring to your favor of 4th inst, I beg to advise you that I have to-day written to the Lamp Co, stating that I am willing that you should have one per cent interest in the Lamp factory, on the same basis as that already agreed upon as to Lawson, Howell, and Bradley.

Yours truly,



April 8th. 84.

W. S. Andrews, Esq.

Middletown. O.

Dear Sir:-

Referring to your favor of 6th inst, we will comply with your request, and send a steel gauge to file up brushes at all our stations in future.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

April 8th, 84

W. S. Andrews Esq.

c-o Edison Elec. Ill. Co. Middletown Ohio.

Dear Sir:-

We are in receipt of your letter of the 6th inst, asking us to send to Mr. Conant 8 old style safety catch attachments. We have a letter from Mr. Conant in which he states that he does not propose using those old style catches, and requests us to send new style catches with the attachment pieces as used on the present feeder switches. As we ordered forward new style catches before we received your communication requesting us to send old ones, and Mr. Conant's letter and your letter under reply, being of current date, the former arriving first, we will make no change in the order, unless we are so requested by you.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 8th, 04.

Major S. Flood Page.

Secretary, Edison & Swan-United Electric Light Co. Ltd.

London, England.

Dear Sir:-

We have your favor of 27th March, and very much regret that you should have been put to any inconvenience by one of your customers having the prices of our dynamos. Considering the extent of our business, however, and the many opportunities that would present themselves to anyone desiring information, we are not at all surprised at this.

If you can suggest any method by which we could rectify the trouble, we would be very glad to carry out your ideas, provided they do not interfere with our business.

We are figuring on slow speed dynamos, and hope to receive further information from you on the subject, as requested in our last letter.

Yours truly,

J.R.E.
S.D.

April 6th. 04.

N. W. Pratt, Esq.

Babcock & Wilcox Co. New York.

Dear Sir:-

We have your favor of 7th April, and beg to inform you that the Armington & Sims Co, are going to sell engines to Mr. Stuart on the same basis as you are going to sell him boilers; namely, list prices.

Yours truly,



April 6th, 84

Geo. H. Bliss Esq.

Gen. Man. Western Edison Light Co. Chicago Ill.

Dear Sir:-

We are in receipt of your letter of the 2nd inst. and regret to hear that the plan of Des Moines building is miscarried. As you request we will send another one to night to Dr. F. E. Cretorian Pres't. Des Moines Edison Light Co.

We will look into the matter of belting, and see, if we can use any of it.

There is no objection whatever to cutting out any of the tools on our estimate, which are deemed unnecessary.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 18th, 84.

Geo. H. Bliss, Esq.

Supt. Chicago, Ill.

My dear Mr Bliss:-

We think we recollect your making an enquiry of some one here about the Edison-Hopkinson dynamo. We prefer to call it the Hopkinson dynamo. Our reason for this, you will see on reading the following, which is an extract from a letter Mr Edison has ~~sent~~^{sent} from the Manager of the Edison & Swan Co, of London.

"Many difficulties have arisen in connection with the so-called "Edison-Hopkinson" dynamos. You are aware that the English Edison Company had made an agreement with Dr Hopkinson for the use of his machines. We find that this machine is at present far from perfect and it is leading us into trouble. The machine as it now is cannot be relied on, and is not nearly so useful practically, as your own; but we are still bound by the agreement made by the Edison Company".

Yours truly,



Apr 8th. 1884.

M. C. Holknapp, Esq.

Highland National Bank, Newburgh, N.Y.

Dear Sir:-

We have your favor of 7th inst. The only reason we are unwilling to send wiremen to Newburgh is that it would increase the cost of wiring, owing to our having to pay the board of the men.

Will you please consult with Mr. Walker, and if you still think it advisable to send a man, kindly telegraph us as soon as you have arrived at a decision, and we will get you a competent man to second Mr. Walker's efforts in endeavouring to get as many lights connected as possible.

Yours truly,

Thos. A. Edison, C. net. Dept.

By 

April 14th, 04.

Prof G. Colombo,

Banca Generale, Milan, Italy.

Dear Sir:-

Referring to the settlement I made with you when I was in Milan, I beg to advise you that I have this day heard from Philadelphia to the effect that the crank-shaft is ready for shipment. It will go forward to you by the next steamer sailing.

Yours truly,



April 8th, 84

Thos. P. Conant Esq.

c-o Edison Elec. Ill. Co. Newburgh N. Y.

Dear Sir:-

We are in receipt of your letter of the 7th inst, and send you by to night's mail blue print of Newburgh, with the district marked off as you request. The hydrometers and safety cures mentioned in your letter of April 6th will reach you by tomorrow.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 5th, 94

Dr. P. E. Crattenden

Pres't. Des Moines Edison Light Co.

Des Moines Iowa

Dear Sir:-

In compliance with the request of Mr. Geo. H. Bliss
we beg to enclose herewith plan showing the general arrangement
of the Des Moines station, after our proposed alterations are made.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 8th 1944.

Prof G. Colombo.

Banca Generale, Via Manzoni 12A, Milan, Italy.

Dear Sir:-

We enclose you herewith copy of a circular transmitted to the Secretary of State by Mr. Fava, Italian Minister in Washington.

Please advise me if you are going to do anything in relation to the matter.

Yours truly,

A handwritten signature in dark ink, appearing to be 'E. J. O.', written over a faint circular stamp or watermark.

April 8th, 04.

H. M. Doubleday, Esq.

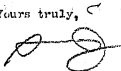
Shamokin, Pa.

Dear Sir:-

We have your favor of 5th inst, and will go into the matter of altering the Shamokin plant immediately. We hope to be able to send you an estimate to-morrow.

The delay in connection with the matter is owing to the immense pressure of business consequent upon Mr. Edison's return from the South.

Yours truly,

A handwritten signature in dark ink, appearing to be a stylized name, possibly 'J. B. ...', written over the typed name 'Yours truly,'.

April 8th, 184.

Thos Sponcor, Esq.

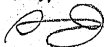
Hazleton, Pa.

Dear Sir:-

We have your favor of 7th inst, and would suggest that you hurry up the fixing of the blower.

Will you please have the experiment tried, as soon as it is put up, of burning the cheapest possible coal. We think that by the aid of the blower, considerable of the expense of fuel can be saved.

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke, positioned below the typed name 'Yours truly,'.

April 6th. 64.

Southwark Foundry & Machine Co.

436 Washington Ave. Phila. Pa.

Dear Sirs:-

We have your favor of 4th inst, and in reply would request that you send the crank-shaft to Präf Colombo, Co Banca Generale. 12 A Via Manzoni. Milan, Italy.

Please insure the same for what you consider its value, and pay all freight and insurance charges in advance, sending bill to us for the same, and whatever repairs you have made on the crank-shaft. Also please send us bill, of lading for the shipment.

Yours truly,



April 6th. 1884.

Geo. N. McGibbin. Esq.

40 West 31st. St. City.

Dear Sir:-

Referring to your favor of 5th inst, I beg to enclose you at the request of Mr Edison, a pass which will enable you to visit our Central Station on Pearl St.

Yours truly,

E. A.

Encl'

Major Eaton:-

Mr Garrison will be here to morrow, and wishes to see you. He asked us to inform you.

S. Insull

By H.

April 9th, 1834.

April 9th, 84

W. S. Andrews Esq.

c-o Edison Elec. Ill. Co. Middletown Ohio.

Dear Sir:-

We cannot make head or tail of the enclosed. Will you
go to Tiffin at your earliest convenience, and find out for us
exactly what the lamp breakage is there.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 9th, 04

H. Ward Leonard Esq.

Chgo., Edison Elec. Ill. Co
Middletown Ohio.

Dear Sir:-

We are in receipt of your letter of the 6th inst,
stating that Middletown Station was started up on Saturday, and we
congratulate you upon the success you made of it.

Yours truly,

Thos. A. Edison Constr. Dept.

By

April 8th, 84

Geo. H. Bliss Esq.

Gen. Man. Western Edison Light Co.

Chicago Ill.

Dear Sir:-

In further reference to your letter dated at Des Moines
Iowa, we beg to say that of the belting on hand at that place it
would be possible for us to use the 10 inch, and the 8 inch double
belt; but we would not recommend placing it in service, inasmuch
as they are not lace sown, and are consequently not reliable.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 9th, 84

Messrs. Borgmann & Co.

292 Ave. B. City

Dear Sirs:-

I shall be much obliged if you will supply me with the data asked for by Major Eaton with relation to your business. As I explained to Mr. Johnson yesterday, I wish to see this myself in preference to it being sent to Major Eaton.

Yours truly,

April 9th, 84

Thos. P. Conant Esq.

c-o Edison Elec. Ill. Co. Newburgh N. Y.

Dear Sir:-

Will you please put all the test lamps in the station on the main which you have now in the hot run in the station, and see what is the effect on the feeders for the purpose of testing the working of the feeder regulators. This should be done outside of running hours. What we want to get at is whether the feeder regulator answers its purpose, and whether it would be safe for us to go ahead and order about \$2,500 worth of these instruments for our other stations.

Any experiments that may suggest themselves to you with the idea of testing them, please conduct, and advise us of the result at your earliest convenience, as it is imperative that we should order the feeder regulators as early as possible.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 9th, 84

A. Stuart Esq.

Sec'y Ohio Edison Elec. Installation Co.

Cincinnati Ohio.

Dear Sir:-

Referring to our telegram of the 7th inst, in which we stated that Middletown was started on Saturday night the 5th inst, will you very kindly send us at once a check for \$6,884.65 the same being 50 per cent of the amount of our contract, and which payment matured on Saturday last in accordance with our agreement. We require this money urgently, and trust you will not fail to send it, as herein requested.

We are this morning in receipt of a telegram from our Superintendent W. Rich dated at Middletown, in which he says "Plant is running finely, 200 lights".

Our Superintendent goes from Piqua to Middletown, and it is our intention to have him push this station to completion with all possible haste.

Yours truly,

Thos. A. Edison Const. Dept.

By

~~CONFIDENTIAL~~
April 9th, 1884.

F. S. Hastings Esq. Treasurer

Edison Elec. Light Co. City.

Dear Sir:-

Enclosed we beg to hand you statement of account to the 1st March 1884, showing the cost of canvassing, mapping, electrical determinations, preparing plans and estimates together with proportion of general office expenditure for each town, work in connection with which has passed through the hands of this Department.

As requested by Major Eaton we have prepared this statement in detail, and in such a manner as to clearly show the cost of bringing each town through the different stages of work to final completion, which latter state is attained as soon as an estimate has been handed in to the Edison Elec. Light Company or its agents.

You will observe that a number of towns which we will mention later on, have not yet been brought to final completion, notwithstanding the fact that a charge against such towns is made under the head of preparing plans and estimates.

In many cases where plans are prepared for a certain town it happens that they can be used to advantage in connection with some other place, we therefore consider that it would not be an equitable division of expenses to debit each town with the ac-

actual amount which accumulated during the time that the plans for such place were undergoing the process of completion. Were we to adopt this course we would in some instances be unable to charge other towns in connection with which the same plans were adaptable, inasmuch as the cost of preparing these plans would have already been charged out. Our object has been to make each city bear an equitable proportion of the accumulated expense, and not to allow one place to take what might be called an unfair advantage, ~~of~~ another.

In order that you may know the exact condition of work in connection with these cities, we will dwell upon each individually, with the exception of those for which estimates have not been furnished, and our not mentioning them will convey to you this fact.

St. Louis Mo. One estimate furnished July 20th 1893.

Portland, Me. One estimate furnished during the month of February of the present year, and two others were supplied during March, but are not included in this statement, inasmuch as it is rendered to the end of February only.

Westboro Mass. Two estimates were furnished on Feb. 15th.

Louisville Ky. Three estimates, one Dec. 14th, and two Feb. 20th.

Haverstraw N. Y. Two estimates, one Dec. 12th, and one Dec. 24th, 1883, the former for an underground installation, and the latter proposed aerial lines.

Haverhill Mass. Two estimates Dec. 3rd, 1883.

Hudson N. Y. Three estimates, one Feb. 11th, 1884, and two on the 18th of the same month.

New Orleans La. One *proposed* an underground installation on Feb. 14th, 1884. On March 20th 1884 we prepared another for overhead wires, and informed you of the fact. It is ready whenever you desire to utilize it. The cost of this latter estimate is not included in this statement.

Dallas Texas. One estimate Feb. 26th, 1884.

Poughkeepsie N. Y. Three estimates, two of which were furnished on the 20th Dec. 1883, and one on the 19th Dec. 1884.

Madison Wis. Two estimates, one Jan. 4th, and one Feb. 13th, 1884.

Williamsport Pa. You will observe that this town is entered upon our statement twice. The first canvass was made by the Edison Elec. Light Co., and our first estimate was prepared from this data at their request, owing however to the inaccuracy of the canvass, and to the fact that the Williamsport Company were

it became necessary for us to make a new canvass, and prepare a further estimate, the cost of which is, as shown on the statement.

Ypsilanti Mich. One estimate Feb. 6th. Another estimate, the cost of which is not shown on this statement has been prepared during the present month, in fact at this moment we are doing work in connection with Ypsilanti under the direction of your agent Mr. Markle, who is in New York.

Hillsdale Mich. One estimate Feb. 11th, 1884. Our remarks in regard to Ypsilanti apply to this place.

Circleville Ohio. Four estimates furnished, one Jan 5th, one Feb. 13th, and two during the month of March 1884, the cost of ^{the latter} ~~this latter~~ not being shown on our statement.

Sherman Texas. One estimate Jan. 9th 1884.

Utica N. Y. One estimate August 10th 1884.

Watsonstown Penna. One estimate July 30th, 1883.

Erie Penna. One estimate August 15th, 1883.

Hartford Conn. One estimate October 26th, 1883.

Davenport Iowa. One estimate Sept. 27th, 1883.

Danbury Conn. Three estimates for this place were furnished up to the 10th Jan 1884.

Southington Ky. Two estimates. One Oct. 22nd, another

Oct 26 83

Norwich Conn. One Nov. 8, 1883.

Racine Wis. One October 26th, 1883.

Natick Mass. One Nov. 8, 1883.

Danville Va. In copying this statement we find that our accountant has included the costs of Danville Va., and Danville Penna., in the amount as shown on our statement. In preference to altering this statement we attach a memo which will show how the amounts should be divided between the two places, one estimate has been furnished for each.

Evansville Penna. One estimate May 20th, 1883.

Charleston W. C. One estimate June 15th, 1883.

Lowell Mass. Three estimates furnished during the month of September 1883.

Governors Island N. Y. One estimate July 5th, 1883.

Hewlym Park N. J. One estimate July 10th, 1883.

Pennsylvania R. R. Depot Jersey City. ¹⁶ estimates July 15th, 1883.

Canyon Arkansas One estimate July 10th, 1883

Mendota Ill. Two estimates, one Sept. 25th, and another Oct. 16th, 1883.

Pittsfield Mass. One estimate Feb. 16th, 1884.

charge against this place not being shown on this statement.

Appleton Wis. One estimate supplied March 25th, 1884, and another April 9th, 1884, entailing a further debate about this place in the next statement we render you.

Southbridge Mass. One estimate Feb. 10th, 1884.

Kansas City Mo. One estimate ^{25th} Oct. 1884.

Auburn N. Y. One estimate Jan. 22nd, 1884, and a subsequent estimate on Feb. 29th, 1884.

You will observe, that commencing with Pottsville there is no charge made against any of the following towns for preparing plans and estimates. All these places were canvassed during the present year, and for none of them, as far as the statement in question is concerned, have estimates been prepared; that is to say our bids in connection with any of them will bear a date after the 1st of March, and our charge against them for preparing plans etc. will appear in the next statement rendered you.

In future we will have our returns in your hands by about the 12th of each month, and these will show our charges for work done during the previous month. Any further information which we can give you in regard to the ^{annexed} ~~same~~ account we shall be happy to furnish you.

Should you find it necessary to ask for further information, we beg to apologize for having failed to embrace it, either in our statement attached, or in this letter, as our earnest endeavor has been to supply you with all details and information requisite to render our accounts perfectly intelligible, and to give you an accurate idea of the present condition of work in connection with ^{each} every town shown on our statement, and which letter we respectively submit for your approval.

respectfully
Yours truly,

Thos. A. Edison Constn. Dept.

By

April 9th, 84

C. R. Trapping Esq.

Sup't. Express Long Island R. R.
Long Island City N. Y.

Dear Sir:-

Referring to your favor of the 7th, I beg to enclose
herewith letters which will answer the enquiry you make about
Floyd G. Cornish of Menlo Park.

Yours truly,

April 9th, 04.

A. Stuart, Esq. Secretary,

Ohio Edison Installation Co. Cincinnati, O.

Dear Sir:-

Replying to your letter of the 7th inst, I beg to state that I would much prefer instead of your buying from me the material which you specify, that you would buy it through the ordinary channels; namely, Bergmann & Co, Edison Machine Works, Ansonia Brass & Copper Co, etc etc, inasmuch as it would be impossible for me to handle the material for you, without charging a profit on same, and in my opinion, there would be insufficient justification for this profit if I simply ship this material to you for your disposal in whatever way you might think best, and without taking upon myself any responsibility in connection therewith.

If you had asked me to take the contract for the Electrical work at Circleville, and desired a bid on that work, including the material, I should have been perfectly willing to quote figures to you, inasmuch as the responsibility in connection with that work would then rest with me, and this would be my justification in charging a profit on the work, as it would be incumbent upon myself to see that it was properly executed, and that it would give satisfaction, and answer the purpose for which it w

2.

intended.

With relation to sending you a competent Electrician for 30 or 40 days.- I am quite willing to do so, if you think one person is sufficient for the purpose, and would simply charge you the actual cost in this instance in order to help you through your experiment. If you order us to send this man, it must be distinctly understood that all responsibility in connection with his work while under your instructions, rests on you, and any errors he may make must in no wise be charged to me.

With relation to your request that I should use my influence to obtain for you lower prices on engines, boilers and other material,-the reason you give for making such a request being that "we are all in the same boat",-I would point out to you that it would be impossible for me to get favorable terms for any class of material unless I gave in some form or another ^{an} equivalent for such terms. The equivalent in the cases in question is, the immense volume of business I do both at home and abroad, certain arrangements as to ordering material, and the payment for same in advance of my actual requirements, which of necessity involves the use of my personal credit.

I am only too anxious to co-operate in every way with you in order to achieve our one common object; namely, the successful

3.

development of our Central Station business, and if it is found that you can put in Plants cheaper (with a reasonable percentage for risks), as well and as satisfactorily as my Construction Dept can, I am very desirous that the fact should be proved.

I will have a copy of the electrical determination made for you and sent forward.

Yours truly,

JNE

April 20th, 84

W. D. Rich Esq.

c-o Edison Elec. Ill. Co. Piqua Ohio.

Dear Sir:-

Mr. Edison is very anxious that any work at Pearl St. which would in any way jeopardize the present station, or in doing which you would run the slightest chance of causing the present dynamo to stop, should be done on Sunday. He also states that every possible precaution should be taken with the steam piping, so as to ensure absolutely perfect joints, as should any trouble occur with this work after we leave it, it would seriously compromise us.

Yours truly,

Thos. A. Edison Constn. Dept.

HC

NO. 82 BILLY VALENDE
THOMAS V. EDISON

MEM. BOOK

FILED

188

April 9th, 84

Francis R. Upton Esq.

Treas. Edison Lamp Co. East Newark N. J.

Dear Sir:-

Will you please settle up Mr. Holzer's account to the last pay day, and give him credit for the difference which is due him, and from that date pay him at the rate of \$50- per week in cash.

Yours truly,

April 10th, 84

Henry A. Clarke Esq.

5 Moon Bdg. Baltimore Md.

Dear Sir:-

When you were in the city the other day, Mr Tate spoke to you in regard to Hagerstown, of which place you desired to obtain a canvass. You informed him that you would obtain from Mr Hastings the necessary authority for us to make the canvass, as As one of our canvassers was awaiting in Cumberland for instructions, we said that we would send him on to Hagerstown, and that you could have Mr Hastings confirm our action by sending us a letter. Mr Hastings states that you did not speak to him in regard to this matter, and we have therefore made the canvass of Hagerstown without receiving from the Edison Elec. Light Co. the authority which we should always obtain before making a canvass. Will you kindly write Mr Hastings explaining this to him, and tell him to issue the necessary instructions now. Our man has finished Hagerstown, and we are just in receipt of a telegram from him, asking for instructions. Having heard nothing from you about further canvasses, we presume you have no more towns in connection with which you desire statistics to be compiled in regard to lighting, and we therefore to night recall our canvasser to New York.

Yours truly, *J. C. C.*

April 10th, 84

William Schwenk Esq.

Pres't. Edison Elec. Ill. Co. Mt. Carmel Penna.

Dear Sir:-

Enclosed we beg to hand you statement of your account to the 1st inst, showing a balance in our favor of \$6,732.74. We annex a bill for \$34.02 for material supplied at your request by Mr Rich. Will you be kind enough to send us a check in full, or partial settlement of this account. Our payments in connection with Mt. Carmel have all matured, and we have had to meet them with money derived from other sources. At the present time we require to use the amount we ask for, and shall feel greatly obliged if you can comply with our request.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 10th, 84.

Gardiner, G. Sims, Esq.

Providence, R. I.

My dear Gardiner:-

Mr Garrison was here this morning, and was talking to us about the Brockton business. He informed us of the arrangement he has made with you as to the engine which he required.

It would ~~materially~~ help him, and be a favor to us if you could arrange to take the Edison Electric Illuminating Co's note at six months for the engine. Of course they would pay interest on the note. If you can get it discounted, and will do this both Edison and myself will be personally obliged to you, as we are very anxious to help Mr. Garrison out, and this would go a long way towards doing so. We sold him the dynamo on these same terms.

The Brockton Company is perfectly sound. They owe ~~nothing~~ *nothing* *truly* nothing; have as you well know a great deal of property, and are doing a good business; but their trouble is, they have not enough capital to extend their station, and the payment for your engine will very seriously incommode them for the next few months.

I told Mr. Garrison that I would try and make some such arrangement as this with you. He is one of the very best fellows we have in our business, and anything either Edison or myself can do to help him through, we are only too happy to.

Yours very truly,

pd

April 10th, 04

A. Stuart Esq.

Treas. Edison Elec. Ill. Co. Middletown Ohio.
Cincinnati Ohio.

Dear Sir:-

Enclosed we beg to hand you statement of your account to the 1st inst, showing a balance in our favor of \$7,611.83, \$6,984.65 being the second payment on account of the Middletown contract which matured on the 5th inst when the station commenced supplying light, and the balance of the account is for material supplied outside of our contract for house work. We shall be pleased to receive your check in settlement of this account at an early date.

Yours truly,

Thos. A. Edison Constn. Dept.

By

Sec'y Edison Elec

A. Stuart Esq.

April 10th, 04

April 10th, 04

E. B. Hubbard Esq.

Sec'y. Edison Elec. Ill. Co. Tiffin Ohio.

Dear Sir:-

Enclosed we beg to hand you statement of your account to the 1st inst, showing a balance in our favor of \$3,460.04. Will you very kindly send us a check for all, or portion of this account. We require to use the money, and shall feel obliged if you can accede to our request.

Yours truly,

Thos. A. Edison Constn. Dept.

BY



April 10th, 84

Jas. Harris Esq.

Sec'y. Edison Elec. Ill. Co. Bellefonte Penna.

Dear Sir:-

Enclosed we beg to hand you statement of your account to the 1st inst, showing a balance in our favor of \$7,256.42. We also annex a bill for one "Y" armature which Mr Rich informed us you desire to retain.

Can you very kindly send us a remittance of \$4000- on account of this statement. We require the use of the money, and we trust that you can oblige us. Awaiting your reply, we beg to remain.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 10th, 04

Messrs. P. B. Crider & Son.

Hallefonte Penna.

Dear Sirs:-

We are in receipt of your postal card of the 8th inst. in which you state that the only ^{way for} ~~method~~ you to recover the amount of \$52.50 for material furnished Frank Wallace, is to place a mechanics lien on the building. If you examine our position in this matter a little more closely, we think that you will decide differently. We simply desire to protect ourselves, as we have no order from Wallace to pay you the amount, and should we do so without this necessary authority, there would be nothing to prevent his collecting from us the amount of his bill. We understood Mr Rich to say that he had no arrangement with you in regard to the material supplied by Mr. Wallace. We have however written him again in order to obtain the exact facts of the case. It is quite unnecessary for you to discuss coercive measures as we are quite willing to pay all charges against us, and simply make the proviso that such charges shall be presented in the regular manner. We will write you again as soon as we hear from Mr. Rich.

Yours truly,

Thos. A. Edison Constr. Dept.

By 

April 10th, 1914.

I Hibler, Esq.

Piqua, Ohio.

Dear Sir:-

We shall be glad if you will calculate for us at the earliest possible moment the following data, and forward same to us as soon as possible:-

First. The cost per pole of setting poles, assuming the poles to be 40 feet long, and to be 35 feet out of the ground when set.

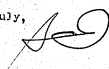
Second. The cost of gaining and trimming per pole.

Third. The cost of running our heavy copper wire per mile. Cost of running pressure wire per mile. Cost of painting poles.

we want
~~we want~~ this data got out in detail, showing us how you arrive at your figures, and the prices given should be averaged prices.

Our reason in asking this information, is that we want to estimate more closely on our pole line estimates.

Yours truly,



April 10th, 04.

W. D. Rich, Esq.

Dear Sir:-

We shall be glad if you will calculate for us at your earliest convenience, the following data, and forward same to us at the earliest possible moment:-

First. The cost per pole of setting poles, assuming poles to be 40 feet long, and to be 33 feet out of the ground when set.

SECOND. The cost of gaining and trimming per pole.

Third. The cost of running our heavy copper wire per mile. The cost of running pressure wire per mile. The cost of painting poles.

We want this data set up in detail, showing how you arrive at your figures. The prices given should be average prices.

Our reason in asking for this information is that we want to estimate more closely on our pole line estimates.

We have also asked Mr. Hibler to figure out this information, and we wish you to let him do his figuring entirely independent of you, as we would like to compare the conclusion he arrives at with your conclusions.

Yours truly,



April 10th, 84

W. D. Rich Esq.

Middletown Ohio.

Dear Sir:-

We are in receipt of a communication from Messrs. P. B. Grider & Son Bellefonte, in which they state, in reference to Frank Wallace's bill, which they ask us to pay to them, that they will place a mechanic's lien on the building, unless we remit the amount.

Have you paid Zeiber, the party with whom you contracted for the erection of the station, for the work he has done? If you have not paid him, this amount of \$32.50 should be deducted from his account. You of course understand, or you at least should understand, that when you make a contract for the erection of a station, and when that contract has been paid, if the contractor has not paid his sub-contractors, they can place a mechanic's lien on the building, and so damage the title, notwithstanding the fact that you may have paid the contractor for all the work he has done. For this reason we consider that you should never enter into an agreement with a contractor, unless he furnishes a bond. Did you exact a bond in the case in question? If not, and if Zeiber has been paid we can do nothing but pay Grider the amount of Wallace's bill, otherwise they will damage the title of the

Central Station building by placing a mechanic's lien upon it, and this we of course would not allow. We do not mind buying this experience at the cost of \$52.50, but we wish you to take steps in future, which will prevent the probability of our making a second purchase at a much larger cost.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 10th, 84

Spencer Trask Esq.

70 Broadway City.

Dear Sir:-

The bearer is Mr. Dyer, one of our canvassers, and we send him to you at the request of Mr. F. S. Hastings Treas. Edison Elec. Light Co, who states that you will give Mr. Dyer instructions in regard to making a canvass of a few blocks in the city of Brooklyn, for the purpose of compiling statistics in regard to light.

Yours truly,

Thos. A. Edison Constr. Dept.

By



April 10th, 84.

W. L. Garrison, Esq.

Boston, Mass.

Dear Sir:-

We enclose herewith a sketch of portion of your Station at Brockton, arranged so as to take in the extra 14 1-2 X 13 engine.

We have written to Mr. Sims to-day about taking the note of the Brockton Illuminating Co, at six months for the engine you have bought from him. We will probably have a reply from him the day after to-morrow, and will then write you.

Yours very truly,

Thos. A. Edison, Const. Dept.

By 

April 10th. 84,

J. W. Wheeler, Esq.

Cashier, Ansonia Brass & Copper Co., New York.

Dear Sir:-

I must apologize for not answering your favor of 8th inst more promptly, but I had overlooked the matter entirely.

I look forward to meeting the note due on the 15th inst, and will, endeavour within the next day or two to pay you something on account of the Machine Works account. At the present moment I cannot say what, but I expect, on Saturday to write you more definitely.

Yours truly,



April 11th. 84.

W. S. Andrews, Esq.

Middletown, Ohio.

Dear Sir:-

Mr. Bowes writes us that the Tiffin people have discharged their meter man. If Mr. Bowes is competent to instruct a new one, please tell him to do so.

Yours truly,

Thos. A. Edison, Const. Dept.

By



April 11th 1884.

W. S. Andrews, Esq.

Middletown, O.

Dear Sir:-

Referring to your favor of 6th, we beg to say that we have written to the Bellefonte people, making the proposition that we will change the engine at our expense, and supply them with the copper wire and electrical instruments to make the necessary extension, provided they will supply the rest of the material, and do the work themselves.

We think this is a very liberal proposition, and if Mr. Harris does not accept it, we shall come to the conclusion that it is impossible to please them.

Yours truly,

Thos. A. Edison, Const. Dept.

By



April 11th 1904.

W. S. Andrews, Esq.

Middletown, O.

Dear Sir:-

We have your favor of 9th inst as to Hazleton, and are much obliged to you for the information given. We were under the impression that we had already written you as to this matter, but find we have not done so.

The fact is, Major Eaton has stated and reiterated the fact that the Hazleton Plant was started without any previous test being made. He gives as his authority Mr. Hawke.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

April 11th, 04.

M. Adams, Esq.

Co Bergmann & Co. New York.

Dear Sir:-

Will you please call here to see Mr. Edison with
relation to the evidence he desires you to give in the Welch case.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'AD' or a similar monogram, written in a cursive style.

April 11th. 04.

J. W. Lieb. Esq.

Banca Generale. Milan. Italy.

Dear Sir:-

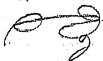
I have your favor of 11th Feb'y, which remained unanswered owing to my absence from New York.

I enclose you a memo from one of my principal electrical experts here, from which you can probably get the information you desire.

With relation to using our old type dynamos as motors, I have not exact data here which I can send you, but I understand that the Paris Company have, and I would suggest that you write to them.

If I can give you any further information in relation to the regulation of your feeders, I should be most happy to do so.

Yours truly,



April 11th, 1884.

Edison Lamp Co.

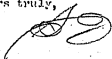
East Newark, N. J.

Dear Sirs:-

We have your favor of 7th inst, and would draw your attention to the fact that Mr. Utton himself suggested that we should sell the lamps referred to by the Italian Company as having been shipped in cask 4100, at 40 cents, as the order for shipment to Antwerp and Milan together made up 10,000 lamps. You will therefore please send us credit note for 10 cents each on all lamps shipped to Milan under recent orders.

Please let us know, when you will ship some more 10 candle power lamps to Milan. We would impress upon you the necessity of keeping close to the volts indicated on order.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'A. J.' or similar, written in a cursive style.

April 11th, 84

E. H. Lord Esq.

Treas. Edison Elec. Ill. Co. Lawrence Mass.

Dear Sir:-

Owing to the month of March having completed our first years business, and to the large amount of work entailed thereby in connection with balancing our books, we have been unable to reply earlier to your letter of March 27th, asking for a detailed statement of your account. We now however take pleasure in enclosing what you ask for, together with statement to the 1st inst showing a balance in our favor of \$3,418.07. If there are any explanations you require in connection with this account, will you very kindly write us in regard to them without delay, as we are like yourselves anxious to arrive at a settlement.

Yours truly,

Thos. A. Edison Const. Dept.

BY



April 13th, 04.

M. C. Hollknep. Esq.

Secy, Newburgh, N. Y.

Dear Sir:-

We have your favor of 10th April, and as requested we have instructed Mr. Walker to teach such new men as you may designate.

With relation to the questions you ask,- We would point out that Mr. Walker's work has very little to do with the station itself, and he went to Newburg early in Feb'y in order to get the wiring work well ahead. We do not however, propose to hold strictly to the period of thirty days, but would propose to charge your Company for his services from the 1st of April.

It would be a matter of arrangement between you and Mr. Dotzert,-or such other parties as may be instructed- as to whether you should charge them for Mr. Walker's services.

If we sent you another man, it would be at the expense to you of his wages and expenses. We allow our men \$2.50 per day for expenses, and their wages of course vary according to their ability. We do not think it would be necessary to send another man, as we believe Mr. Walker can do all that is necessary in the

2.

way of instructing your local men.

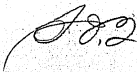
Our Lamp Company people have promised to send their expert to Newburg immediately he is disengaged from other work in New York.

With relation to the breakage of lamps, we will look into the matter, and find out the cause of the breakage, and if we find that it is any fault of ourselves or the Lamp Company, we will see that the lamps are replaced.

Yours truly,

Thos. A. Edison. Const. Dept.

By



April 13th, 1914.

T. P. Conant, Esq.

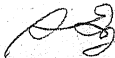
Hewburg, N. Y.

Dear Sir:-

Mr. Bellknap complains to us that a number of their
lamps have broken.

Please let us know whether there has been a normal or
abnormal breakage. In fact, send ~~me~~ full information on the sub-
ject, as we want to find out whether we should send them lamps to
replace those broken, at our expense, or at the expense of the Local
Company.

Yours truly,



April 13th. 84.

Messrs P. B. Crider & Son.

Hollofonte, Pa.

Dear Sirs:-

We have your favor of 6th inst, and beg to advise you that we have this day accepted you 10 days sight draft on us for \$993.00.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

April 30th, 84.


Gustav Saldan Esq.

Supt. New York.

Dear Sir:-

Will you please give me detail information with relation to alteration of Central Station dynamos. I have your tracings of this work, but I think in order to enable the Milan people to alter their dynamos successfully, we ought to send them in addition to the drawings, some explanation as to how they should set about it.

Yours truly,

A handwritten signature in dark ink, consisting of a stylized, cursive 'A' followed by a circular flourish.

April 11th. 04.

A. Stuart. Esq.

Secretary. Cincinnati. O.

Dear Sir:-

Referring to your favor of 7th inst, we do not think it would be advisable to use any other than Babcock & Wilcox boilers in the "Block Plant".

It is necessary in our business to have boilers which will give steam quickly, and which can be easily and rapidly cleaned, and so far as our experience goes, we do not know of any other boiler which will answer these requirements.

Yours truly,

Thos. A. Edison. Const. Dept.

By



April 13th. 1914.

Gustav Soldan, Esq.

Supt. New York.

Dear Sir:-

I am anxiously waiting for tracings of the armature connections of our various machines. You have only sent me the tracings of the 25 and 50 light armatures up to the present time, and I have promised to send out blue prints to a great number of people, but am delayed until I get the information from you.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'G.S.' or similar, written in a cursive style.

April 13th, 94.

A. Stuart, Esq. Secretary.
Cincinnati, Ohio.

Dear Sir:-

Your favor of 1st inst -which we informed you we wanted Mr Edison to see -was overlooked; hence the delay in replying.

We understood from some one from your office, who was introduced to our Engineer by Mr. Scheffler, that it would be quite possible to excavate the spot referred to in order to get the necessary depth.

The new piece of property you speak of would suit us admirably, and we do not doubt but that we could get the lights you want in a space 23 X 200. The only trouble would be how to get the stack and exhaust arranged. We could easily run it to the top of a building and cross a street, or we could even drill a hole through a street 30 or 40 feet wide if necessary.

We can send you an engineer in the course of a week or so. Unfortunately, the man we would like to send is at present sick in bed.

The main trouble in connection with this new location would appear to us to be the chimney draft. If there is already

2

a chimney, please give us sizes of same, and what chimney is used there at the present time.

Yours truly,

Thos. A. Edison. Const. Dept.

By



April 11th, 84

N. C. Yost Esq.

Trans. Edison Elec. Ill. Co. Hazleton Penna.

Dear Sir:-

Enclosed we beg to hand you statement of your account to the 1st inst, showing a balance in our favor of \$5,675.06. To ascertain the amount due us at the present time, there should be deducted from this balance \$1,870.02, which is the payment you made to the Hazleton Coffin & Casket Co. for us during the present month and from which should also be deducted \$517.50 the amount charged you in accordance with our contract for feeder equalizers, which we have not yet supplied. These devices are now being made, and will be placed in service at the earliest possible moment. This leaves an actual balance of \$3,187.54 for which we shall be glad to receive your check. We trust you can oblige us as we require to use the money at the present time.

Yours truly,

Thos. A. Edison Constn. Dep.

By 

April 13th. 84.

W C. Yost. Esq.

Secretary. Edison Elec. Ill. Co. Hazleton, Pa.

Dear Sir:-

Referring to your favor of 9th inst, will you please inform us what number of lights you would probably be able to secure if you made the extension you refer to; also what their average burning would probably be.

We cannot tell what extra investment would be required until we know how many lights you wish to supply. As soon as we get definite information, we will have the necessary calculations made, and write you again.

Yours truly,

Thos. A. Edison, Const. Dept.

By



April 11th, 04.

E. B. Hubbard, Esq.

Secy. Tiffin, O.

Dear Sir:-

We have your favor of 8th inst, and note that you state you have discharged the meter man.

We cannot keep our Mr. Reeves in Tiffin indefinitely, and you should therefore take immediate steps to get another man, in order to enable Mr. Reeves to instruct him.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

April 11th, 84

Magnolia Hotel

Magnolia, Florida

Dear Sirs:-

I beg to acknowledge with thanks receipt of your letter of the 3rd inst. per Mr. McGilvray, enclosing \$16.75 for the lunch which I did not get.

I am very much afraid that the recording angel has a special entry against my account for improper language upon the day of my departure. If you can suggest any way in which I can get this \$16.75 into the hands of St. Peter, it will probably balance my account, and all will be well.

It was my intention to have left orders to have the head waiter killed, but subsequently I relented. Next year however I will be able to avenge myself, and in the meantime I beg to remain.

Very truly yours,



April 11th, 64

A. G. King Esq.

Roxbury Mass.

Dear Sir:-

Enclosed we beg to hand you the remaining papers in regard to Portland namely, specification of street installation, building specification, and plan showing the general arrangement of the building we propose erecting.

We have not yet received from you an acknowledgement of the receipt of our letter of the 8th inst, enclosing the Portland estimate, and map of district. Were these received?

Yours truly,

Thos. A. Edison Const. Dept.

By 

April 12th, 24

E. Ward Leonard Esq.

c-o Edison Elec. Ill. Co. Middletown, Ohio.

Dear Sir:-

We are in receipt of your letter of the 8th inst, in relation to the "G" ampere meter, and ground detector. These have already been forwarded to Middletown. We presume you have received them.

In forwarding to you the chart of Middletown system, we should have enclosed the pole line scheme, it was however omitted, and was forwarded to you the next day. This statement mentions the feeder, in connection with which german silver resistance is to be used.

Yours truly,

Thos. A. Edison Const. Dept.

By



April 12th. 1914.

A. Stuart, Esq. Secretary.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We have your telegram stating that there is some misunderstanding about the Middleton matter. What you refer to, we cannot at all make out.

We shall be very glad if you will send us a check immediately for the payment due on the Middletown contract on the starting of the Station. The Station has now been running a week, and inasmuch as we are urgently in need of funds, we must request you to send us a check per return mail, as we had reckoned on getting same early in the present week.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

April 12th, 84

Ensign E. E. Wright

U. S. Flag-Ship New Hampshire

Newport R. I.

Dear Sir:-

I am in receipt of your letter of the 11th inst, and regret that I am unable to do as you request, for the reason that my testing room is practically closed for the present. Probably in a couple of months the arrangement you desire can be made.

Yours truly,

A handwritten signature in dark ink, appearing to be 'E. E. Wright', written in a cursive style.

April 12th, 64

Geo. S. Hale Esq.

39 Court St. Boston, Mass.

Dear Sir:-

Permit me to introduce to you, Mr. M. Adams, the gentleman whose deposition you desire to take in connection with the case Welch versus myself.

Yours truly,



April 12th, 84

F. S. Hastings Esq. Treasurer

Edison Elec. Light Co. City.

Dear Sir:-

We send you herewith estimate, specification of building, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Elec. Light Central Station Plant of 1000 lamps capacity at Manville, Va. The said estimate amounting to \$27,362.97. This estimate is based on the present value of labor and material, and we hold ourselves in readiness to close it on the terms stated at any time within 60 days from the date hereof, but not after.

The local company in executing the contract for the installation of a plant should be careful to comply with the laws of the State of Virginia.

A meeting of the Board of Directors should be called and a resolution passed directing the officers named therein (usually the president and Treasurer) to sign the contract on behalf of the Corporation and affix thereto the Corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and administer oaths, and in the acknowledgement should be incorporated an affidavit by the officers that they have signed

the contract and affixed to it the Corporate seal, in and by virtue of a resolution of the Board of Directors authorizing them so to do; the form of acknowledgment to be such as the laws of the State of Virginia require. The acknowledgment should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract, approved by the Company, we will return a duplicate signed.

Yours truly,

Thos. A. Edison Const. Dept.

By

A handwritten signature in dark ink, appearing to be a stylized 'A' followed by a flourish.

April 12th, 04

W. D. Rich Esq.

c-o Edison Elec. Ill. Co. Piqua, Ohio.

Dear Sir:-

Please note the attached letter from Mr. Doubleday, in which he states that the wires of the Mt. Carmel system are very slack, and also alleges that the cross arms are too light to support those wires. Did Hibler perform this work, or was it done by a local man? This matter should be investigated immediately.

Can you explain the cause of the pressure wires breaking? It cannot be that they are too light, as they are the same size as the ordinary telephone wire, and in the construction of our system twice as many poles are used as in the construction of the telephone system, therefore these pressure wires cannot break from their own weight. Please ventilate this matter thoroughly.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 12th, 84

E. M. Doubleday Esq.

c-o Edison Elec. Ill. Co. Shamokin, Penna.

Dear Sir:-

We are in receipt of your letter of the 10th inst, and will investigate your statements in regard to slack wire, and light cross arms.

It seems very strange that the pressure wires should be light, as they are the same size as telephone wires, and in the construction of our system twice as many poles are used as in the construction of telephone systems. We will, however have the matter thoroughly ventilated.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 12th, 84

W. J. Jenks Esq.

Man. Edison Elec. Ill. Co. Brockton Mass.

Dear Sir:-

Under same cover we send you a blue print of Brockton, and wish you would be kind enough to mark in white lines the location of your present consumers, and state their average burning. In addition to this please mark in red the locations of your probable future consumers, and their average burning hours.

A solution of potash and water used in connection with this blue print paper in the same manner as ink, will produce white lines.

Yours truly,

Thos. A. Edison Consth. Dept.

By



April 12th, 04.

My dear Mr. Faith:-

I am sorry to say that I shall have to again
put off the appointment for to-morrow that I had with you.
My Father-in-law is dead, and I want to spend the time with my
wife and family.

I will advise you later, and in another appointment.

Yours very truly,

N. S. Kitchin
Room 16
237 Broadway

NSK

April 12th, 04

A. G. King Esq.

302 Longwood Ave. Roxbury, Mass.

Dear sir:-

We are in receipt of your letter of the 10th inst, and in reply beg to say that all the Portland papers have been sent you. Those which remained in our hands after communicating with you on the 8th inst, having been forwarded yesterday.

In relation to the letter explaining the various marginal notes on the foot of the contract, we beg to remind you that we wrote this letter addressing it to you, and that you took it with you when you left New York. We have however pleasure in enclosing a second copy, which we trust will reach you safely.

Yours truly,

Thos. A. Edison Constr. Dept.

By



April 14th, 04

W. S. Andrews Esq.

Tiffin Ohio.

DEAR SIR:

We are pleased to learn from your letter of the 12th that that matters in Tiffin are in such a satisfactory condition. We have already written the Tiffin Company in regard to Mr. Davis.

In relation to german silver, the calculations were made by one of our men in the office here, and were erroneous, that is the results attained by its introduction in connection with the three wires will be correct, but the same results might have been accomplished by having the resistance in the plus and minus wires only. In future we will as you request, instruct you in relation to matters of this nature. You are no doubt aware that we have sent german silver to Middletown, explanations in regard to which we forwarded to Mr. Leonard.

Yours truly,

Thos. A. Edison Consul. Pat. - powered by en

By



April 14th, 04

April 14th, 04.

H. Ward Leonard,
Middletown, O.

Dear Sir:-

I have your favor of 6th April, and would remind you that it is a comparatively short time since I advanced your salary, and under the present state of business, I should not feel justified in advancing it again.

You seem to lose sight of the fact that those of our Electrical experts who are receiving larger salaries than you, have been longer with us than you have. You are comparatively new in the business, while the others have been with us for some considerable time.

Yours truly,



April 14th, 04.

Major Eaton:-

I am constantly getting enquiries from Europe with relation to new methods that we have adopted in connection with the electrical part of our business; requests for drawings or copies of drawings of new dynamos and other things which we turn out. In fact, for all kind of information with relation to the system.

I am anxious to know what is my exact status with relation to these enquiries. Am I by agreement compelled to give such information at my own cost, or have I a right to charge for same? All I wish to do is to prevent myself from being continually burdened with these matters, but of course, I am perfectly willing to give the information if it is paid for.

Will you oblige me by looking into the matter, and advise me as to the position I should take in the matter.

This memo is prompted by an enquiry I have from Berlin to-day, asking for a great deal of information, which it will take considerable time to get out.

Thos. A. Edison.
per McC.

Major Eaton:-

I approve of your suggestions in regard to Bailey,
and the Italian patent decree.

Thos. A. Edison

By H.

April 14th, 1884

April 14th. 04.

Edison Lamp Co.

East Newark, N. J.

Dear Sirs:-

Mr. Edison having signed the stock certificates connected with the Bradley, Howell, Dyer and Janson one per cent interest in the Lamp factory, I shall be glad if you will send us an account, giving us credit for the amount due Mr. Edison under above arrangement. The best way would be to credit foreign order account.

Yours truly,

A handwritten signature in dark ink, appearing to be 'J. D.', is written over the words 'Yours truly,'. Below the signature, the number '2' is written in a similar cursive style.

April 14th, 84

F. A. Bradford Esq.

107 State St. Boston, Mass.

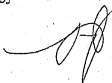
Dear Sir:-

Replying to your letter of the 11th inst, I beg to say that Geo. E. Prescott's large work on electricity, which is published by Messrs. D. VanNostrand & Co. 23 Murray St. New York City, will give you the information you desire.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 14th. 84.

Messrs Bergmann & Co.

New York.

Dear Sirs:-

We have a good deal of scrap copper at the Laboratory which we have received from the different stations. I do not mean the large bundles of copper, but just odd lengths. There is probably something under 500 pounds of these odd sizes.

Would you buy it from us as scrap copper? If so, what price will you allow us for it. We think it would be useful in your foundry.

Yours truly,

Thos. A. Edison Const. Dept.

By 

April 14th, 04

THOS. P. CONANT Esq.

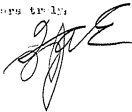
c-o Edison Elec. Ill. Co. Newburgh, N. Y.

Dear Sir:-

The gentleman who hands you this letter is Colonel
Geo. W. Sherman, who desires to inspect the Newburgh station, and
to whom I wish you to give all the information you can in regard to
the operation of the same.

Colonel Sherman starts in a short time for Buenos Ayres
where he is to take charge of an installation we are making in
that place.

Yours truly,



April 14th, 84

Henry A. Clarke Esq.

5 Moon Edg Baltimore, Md.

Dear Sir:-

We are in receipt of your letter of the 13th inst, in regard to the canvass of Hagerstown.

We have no doubt whatever that the matter can be satisfactorily arranged between you and Mr Hastings.

When our canvasser was through with Hagerstown, we were unaware as to your whereabouts, and could not hold him in Hagerstown for an indefinite period.

Could you not give Mr Hastings a list of the towns that you desire to have canvassed, and ~~make~~ work done in a consecutive manner. This would be a much better course than that pursued at the present time.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 14th, 04

W. H. Dwyly Jr Esq.

Treas. Edison Elec. Ill. Co. Fall River, Mass.

Dear Sir:-

Allow me to introduce to you Colonel Geo. W. Sherman, who desires to inspect your station, and I shall be very much obliged for any information you can kindly give him.

Colonel Sherman starts in a short time for Buenos Ayres, where he is to take charge of an installation we are making in that place.

Yours truly,



April 14th, 64.

My dear Sims:-

I have your letter of 13th inst, and am glad that you have arranged with Mr. Garrison in the matter you state.

Yours truly,



Cardiner, C. Sims, Esq.

Providence, R. I.

April 14th, 1918.

Gustav Soldan, Esq.

Geerck St. New York.

Dear Sir:-

I have asked Mr. Sprague to give me table showing resistance of cores and armatures of the various sizes of dynamo machines now manufactured.

If he applies to you about this, please do all you can to hurry it through as one of our foreign Companies, and the Isolated Company want it very badly.

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke extending to the left.

April 14th, 94.

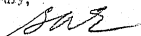
L. W. Serrell, Esq.

140 Nassau St. New York.

Dear Sir:-

I have referred your circular notice of 10th inst
as to fees due on Canadian patents Nos 1022 and 1023, to the Gold
& Steel Telegraph Co. They are the parties who ought to pay same.

Yours truly,



April 14th. 1914.

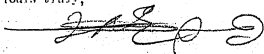
Gustav Soldan, Esq.

Supt. Georel St. City.

Dear Sir:-

Referring to your favor of 13th inst, I have handed
the wire tables you ask for to ^Ement, who will deliver them to
you.

Yours truly,

A handwritten signature in dark ink, appearing to be 'J. S. D.', written over a horizontal line.

April 14th, 84

P. S. Hastings Esq. Treasurer

Edison Elec. Light Co. City.

Dear Sir:-

Referring to the attached letter from Mr. Clarke, we beg to say that the understanding he quotes as having existed between him and Mr. Tate is erroneous. Mr. Clarke himself agreed to make arrangements with you in regard to the canvass of Hagerstown, however this is a small matter and can be adjusted satisfactorily.

We would suggest that it might be desirable to impress upon Mr. Clarke the necessity of having his towns canvassed in a consecutive manner. We cannot hold a canvasser at any one point awaiting instructions as to where he is to go next, and it would be much easier for Mr. Clarke to give you a list of the towns he desires canvassed, and arrange with you for issuing to us the necessary authority to make the canvass, than to have us send a canvasser out from New York, bring him back here, and send him out again. If such a system as this letter is adopted the charges against towns in Mr. Clarke's district are going to be abnormally high.

Yours truly,

Thos. A. Edison Constn. Dept.

By



Apr 14th. 1874.

F. S. Hastings, Esq.

Treasurer. E. E. J. Co. New York.

Dear Sir:-

We have a letter from Mr. Clarke in which he says he would like to have Frederick and Annapolis, Md, canvassed.

If you desire us to do this work, please send us an

order
enclosed.

Yours truly,

Thos. A. Edison, Genl. Dept.

By 

April 14th, 04.

P. S. Hastings Esq. Treasurer

Edison Elec. Light Co. City.

Dear Sir:-

Enclosed we beg to hand you statement of account to the 1st inst, showing the amount of the indebtedness of the Edison Elec. Light Co. to this department for the month of March, the said amount being \$2,445.91.

Our work as shown, in connection with New York, has not as yet been productive of an estimate. Plans of the general arrangement of the station are being prepared, and we are pushing the work towards completion with all possible dispatch.

Orange N. J. During the month of March, we prepared 5 estimates for that place, three for overhead systems, and two for underground installations. We are still producing further estimates in connection with this place.

Cincinnati Ohio. This charge is for an estimate completed by us on March 28th, for what is known as the Cincinnati "block plant", with the details of which you are no doubt familiar.

Irrington N. Y. Two estimates were prepared for this place on March 8th, one for an overhead installation, and another for an underground installation.

Ashland Penna. For this place we prepared three estimates.

Danville Va. One estimate.

Des Moines Iowa. One estimate.

Frankfort Ky. One estimate.

Cedar Rapids Iowa. One estimate.

Harrisburgh Penna. One estimate.

The annexed is respectfully submitted for your approval.

Yours truly,

Thos. A. Edison Const. Dept.

By 

April 14th, 84

V. S. Hastings Esq. Treasurer

Edison Elec. Light Co. City.

Dear Sir:-

In compliance with the request embodied in your memo of to day's date, we beg to hand you a statement in regard to the second estimate which we prepared for Hillsdale, Mich., assuming a station capacity of 800 lights.

Mr Markle informed us that the local Company desired to erect their own building, and that they had a bid from a responsible contractor for the erection of the pole line system, and they desired us to allow them to deal with this, in connection with building the Central Station. Inasmuch as we have yet to install a virgin plant in Michigan, we desire to assist Mr Markle as much as we possibly can, and in addition to making the concessions he requested, we eliminated \$1,414.59 from the cost of material and labor to be supplied by ourselves, thus making the Hillsdale estimate for 800 lights \$19,400, all details in connection with which are in the hands of Mr Markle.

Yours truly,

Thos. A. Edison Compt. Cont.

By 

April 14th. 04.

Straight Line Engine Co.

Syracuse, N. Y.

Dear Sirs:-

Please inform me as to when the 9 X 11 engine that
you are making for me will be finished.

Yours truly,

A handwritten signature in dark ink, appearing to be 'D. J. E.', written in a cursive style.

April 14th. 04.

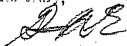
Mr. P. Johnson,

211 East 7th St. New York.

Dear Sir:-

Referring to your favor of ~~the~~ inst, I am altogether unacquainted with the details of the matter you refer to. The Edison Machine Works is run by the Superintendent, Mr. Soldan, whom I hold responsible, and I would not like to interfere with him in any course which he may think it to the best interests of the Machine Works to take.

Yours truly,



April 14th, 84

W. J. Jenks Esq.

Manager, Edison Elec. Ill. Co. Erockton, Mass.

Dear Sir:-

Allow me to introduce to you Colonel Geo. W. Sherman, who desires to inspect your station, and I shall be very much obliged for any information you can kindly give him.

Colonel Sherman starts in a short time for Buenos Ayres, where he is to take charge of an installation we are making in that place.

Yours truly,



Apr 14th, 1898

Albert. Geo. Ling. Esq.

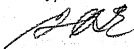
302 Longwood Ave. Roxbury, Mass.

Dear Sir:-

I have your favor of 13th inst.

I am promised proof sheets of the new form of underground contract to-morrow or next day. Immediately I get a proof from the printer I will send you a copy.

Yours truly,

A handwritten signature in dark ink, appearing to be 'G. L.' or similar initials, written in a cursive style.

April 14th, 84

W. H. Garrison Esq.

Boston Mass.

Dear Sir:-

I am in receipt of your letter of the 13th inst, where in you cite your reasons for enlarging the Brockton station.

Your considerations are certainly weighty, and you have my best wishes for the realization of all you anticipate.

In regard to arc lighting, there is no doubt that you can squelch the Company now under process of formation in Brockton. Let Mr. Jones ~~ascertain~~ and ascertain how many consumers want arc lights. I will very soon be ready to supply them.

Yours truly,



April 14th, 94.

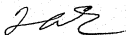
Gold & Stock Telegraph Co.

195 Broadway, New York.

Dear Sirs:-

Will you please attend to the payment of the fees
referred to in enclosed circular from Mr. Sarrell?

Yours truly,

A handwritten signature in dark ink, appearing to be 'J. W. R.', written in a cursive style.

April 15th, 84

Arthur S. Davis Esq.

c-o, Edison Elec. Ill. Co. Tiffin, Ohio.

Dear Sir:-

I beg to acknowledge with very many thanks the receipt of fourteen copies of the Tiffin Daily Herald of March 29th, which came to hand yesterday. Pardon me for reminding you that in your letter of the 9th inst, you have omitted to mention to what extent I am pecuniary indebted to you for this obligation.

Yours truly,

A handwritten signature, possibly "A. S. Davis", written in dark ink.

April 15th. 64.

Personal.

A. Stuart. Esq.

Cincinnati, Ohio.

My dear Mr. Stuart:-

You will remember that when I was in Cincinnati, we had a long discussion about the Tiffin contract, the reductions I made in connection with the estimate, and your statement that our charges were very excessive. On the first of April we had to our credit on this account the sum of \$516.00, which is the amount of profit made to that date in connection with the work at Tiffin, which involved a trip of myself to Cincinnati, and no small trouble in this office. This profit will disappear before we get through.

This will show you what a big pudding there is in Central Station work.

Yours very truly,



April 15th. 04.

Thos. P. Conant, Esq.

Newburg, N. Y.

Dear Sir:-

We have your favor of 13th inst explaining the lamp
breakage at Newburgh. We note however, that there is one point
you omit to mention altogether; namely, that an error was made in
the first lamps put up, -so we are informed by the Lamp Factory
authorities-. Instead of using the regular lamps, resistance
lamps were placed in the outside circuit. If this is so, why did
you not mention the matter in your letter? Is it necessary for
us to ship other resistance lamps to cover the number broken by
this blunder? We hardly think we ought to have to go to outside
parties to find the EXACT ^{reason} ~~reason~~ of any slight trouble.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

April 15th. 84.

Major Eaton:-

I am trying to find out the expenses of Bellefonte Station for a month. As soon as I get the information, I will send it to you,

S Insull,
per McC.

April 15th, 04.

N. C. Yost, Esq.

Treasurer, Hazleton, Pa.

Dear Sir:-

We have your favor of 14th inst, and are very much obliged to you for the check for \$2000 enclosed therewith,

We have placed this amount to the credit of your account, and remain,

Yours very truly,

Thos. A. Edison, Const. Dept.

By 

April 15th, 1884.

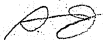
Gustav Saldan, Esq.

Supt. Georel St.

Dear Sir:-

Will you please return to us the enclosed letter from the Western Edison Light Co, with your explanation of the matter, that is; Why did you rewind the armature when all they wanted was some slight repairs made.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'G.S.' or similar, written in a cursive style.

April 15th. 1914.

F. R. Upton, Esq.

Edison Lamp Co. East Newark, N. J.

Dear Sir:-

Can you prepare a table for me showing what should be the breakage each night in a month, say for the first month after starting a Plant of 500 lights? ^{probably burning} What I want to get at is about what breakage should occur in our stations in the first week or two, provided the pressure is normal. This information would be very useful to us, as it would enable us in the office here to detect immediately any errors in the electrical part of our work in case abnormal breakage is reported to us. Our present difficulty is that we do not know what the normal breakage should be. Of course it is easy enough to figure out the average breakage, but Mr. Edison says he thinks you can tell us about what the actual breakage should be by the night from our first night of starting a station until the proportion of bad lamps are shaken out.

Yours truly,



April 15th, 84.

John. T. Perry. Esq.
Bellefonte, Pa.

Dear Sir:-

Will you please find out for us the running expenses
per month of the Bellefonte Station. If you can find out the
expenses for the period embraced by the statement of receipts
which was sent us, it would be of great assistance to us.

Yours truly,

A handwritten signature in cursive script, appearing to be the initials 'J.T.P.' or similar, written in dark ink.

April 15th. 84.

J. W. Newbury, Esq.

Room 15, No 33 Broadway, New York.

Dear Sir:-

Referring to your postal, I beg to inform you that I have no Typo-Writer that I am prepared to place on the market at present.

Yours truly,

A handwritten signature in dark ink, consisting of a large, stylized initial 'J' followed by a cursive name, likely 'Newbury'.

April 15th, 04

Messrs. Markle & Hall

153 Griswold St. Detroit, Mich.

Dear Sirs:-

Enclosed we beg to hand you scheme for running wires at Hillsdale High, which when used in connection with our map, already in your possession, will show the points between which the different sizes of wires are to be used.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 15th, '84.

A. J. Lawson. Esq.

Edison Electric Light System, Halifax Sugar Refinery.

Woodside, Halifax, Nova Scotia.

Dear Sir:-

I have your letter of 11th inst, and have read with interest your account of the work in connection with the Canadian Department. Anything I can do for you, I shall be most happy to.

I think that the remarks Mr Edison may have made have been conveyed to you in an erroneous manner. Mr Edison, so far as I recollect, made nothing personal so far as you are concerned at all.

If I can be of any service to you, I beg you to command me.

Yours very truly,



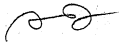
April 16th. 84.

W. S. Andrews. Esq.

Dear Sir:-

We understand from the Hazleton Company that they have trouble with their injector; also with the governor of their engine. Mr. Yost states he spoke to you about the matter, but his letter to us, is, as far as I am aware the first intimation we have received of their being any trouble.

Yours truly,



April 16th. 04.

Messrs. Armstrong & Sims Engine Co.,

Providence, R. I.,

Dear Sirs:-

We have a letter from the Hazleton Company, stating that the governor of their engine is not at all satisfactory.

Please send a man there immediately to fix same, and instruct him to get through the work as quickly as possible, as these trips cost us considerable money. Please wire us ~~to~~ tomorrow as to when the man will leave for Hazleton. It is very important that this matter should be fixed immediately.

If the trouble in this matter is your fault, of course we shall look to you to pay the expenses.

Yours truly,

Thos. A. Edison Const Dept.

By 

April 16th, 1914.

N. C. Yost, Esq. Secretary.

Edison Electric Illuminating Co.

Hazleton, Pa.

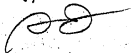
Dear Sir:-

We are obliged to you for your favor of 15th inst, and will take immediate steps to have a man sent to fix up the governor of your engine. Your letter is the first we have heard of any recent trouble in this connection.

Please let us know what trouble you have with the ^{injector} ~~injector~~

~~injector~~. We will also look after this immediately.

Yours truly,



April 10th, 84.

Messrs Bergmann & Co.

New York City.

Dear Sirs:-

I wrote you some days ago asking the price of Pressure Regulators. We are very anxious to order these, and are simply waiting your bid for from 30 to 40 Regulators. The day after we wrote you, the writer called at your office to see your Mr. Bergmann in relation to the matter, but he was not in. Your Secretary, Mr. Cline, promised to get Mr. Bergmann to make us a bid right away.

Cannot you manage to attend to this matter? as the delay is really very seriously inconveniencing us.

What progress is being made in altering Pressure Indicators?

Please give us price of the new form of Pressure Indicator with the slight modifications which Mr. Sprague will inform you of if you ask him about the matter.

Yours truly,



April 16th, 84.

Western Edison Light Co.

Chicago. Ill.

Dear Sirs:-

Again referring to your favor of 12th inst, with relation to re-winding "F" armature, - we would draw your attention to the fact that your order No 240 of 15th February simply instructed us to repair the ~~armature~~. We look upon that as covering any such repairs as re-winding, inasmuch as when the armature arrived at our Works, the wires were all burned on ends of armature and the fibre heads fell off in disconnecting, which involved re-winding. Then noticing that the ^{commutator} ~~armature~~ was in pretty bad condition, we thought it best to suggest to you that a new Commutator be put on, and we telegraphed you price of same. Our telegram stated nothing about any other repairs that might be necessary.

We regret to say that we cannot agree with you in your statement that "there is no question as to where the fault lies in this transaction", nor can we see why we should make any reduction on the bill for the work. If you will carefully look over your order, our telegrams, and remember the condition of the Armature when it reached us, we cannot possibly see how you can charge the mistake in this matter to us. When we make errors, we are perfect

Don't think we'll be able to
do it

willingly
-ly to stand all the expense in connection with same, and when there is any question as to who is responsible for an error, we are willing to meet you in a liberal manner, but we must confess that we do not consider this to be a case which will allow of either of the above solutions.

We look upon your order No 240 as covering any necessary repairs, and your telegraphic authority to us as empowering us to put on a new Commutator; this latter being something beyond what we consider in our business as necessary repairs.

We fail to see why the looseness you speak of should be blamed to us;

Yours truly,



April 16th, 84

Messrs. P. B. Crider & Son.

Gallatin, Penna.

Dear Sirs:-

In further reference to your bill for material furnished by J. W. Wallace, we beg to say that we wrote to our Superintendent, Mr. Rich, who informs us that the party Zeiber, with whom he contracted for the erection of the station has been paid the amount of his contract.

Mr. Rich simply recites the relations existing between ourselves, Wallace, Zeiber and himself.

As stated in our former letter to you, we consider it very unfair, and the more so considering the amount of business we have done with you, that you should exact from us an amount which we have already paid once, and which you have failed to collect from the proper person through what can only be called carelessness on your own part. You understand that we would in no case allow a lien to be placed upon the building, and thereby damage the title, and as you desire to take advantage of this sentiment we will pay you the amount of Wallace's bill upon receipt of same.

Yours truly,

Thos. A. Edison Constn. Dept.

April 16th, 1894.

W. Preston Hix Esq.

c-o Capt. A. Pizzini, Richmond, Va.

Dear Sir:-

In accordance with instructions received from you, we sent to Mr. O. W. Munro Lexington, Ky., blue print of that place, together with the annexed correspondence, which explains itself. You will observe from the envelope in which our communication to Mr. Munro was enclosed, that the letter was unclaimed.

Will you kindly obtain information for us in regard to real estate in Lexington.

By same mail we send you a blue print of that city.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 16th, 1884

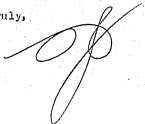
Gustav Soldan Esq. Sup't.

104 Beerek St. City.

Dear Sir:-

When Mr. Wood calls, show him around the works, but do not disclose to him any of the details in connection with our dynamos, and send the figures which you are preparing to me, not to any one else.

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke extending to the right.

April 10th, 94.

My dear Sims:-

Referring to your favor of 15th inst enclosing Stewart's letter, which I return herewith, - Mr. Edison is of the opinion that any engine business that Mr. Stewart should have offered to him in Chili should be done through us. Mr. Stewart is in Chili under special contract with us, and is supposed to devote his time to our business, and under such circumstances, if there is any money to be made out of engines, we think that it should come into ~~our~~ hands. We should of course be perfectly willing to make some arrangement with Stuart with relation to outside engines, independent of our arrangement as to electrical matters.

Yours very truly,

J. C. Sims
Providence
RR

RR

April 10th, 34

H. D. Rich Esq.

c-o Edison Elec. Ill. Co. Hillstown, Ohio.

Dear Sir:-

We are in receipt of your letter of the 12th inst, in regard to the bill of J. W. Wallace, which Messrs. P. S. Crider & Son desire to collect from us.

You state that you understand the application of the law in relation to liens in every state in the Union, after which you observe that Crider & Son have no claim whatever upon us. This latter remark rather limpidates the correctness of the former. Crider & Son have full power under the law to place the lien upon the building. The right which is given us, is that of action of damages against Zeibay, who in turn has right of action against Wallace. This is a chain ^{of} links of which we would prefer to leave unconnected, and therefore we shall simply have to pay Crider & Son the amount of Wallace's bill.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 10th. 84,

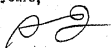
My dear Mitchell:-

This will introduce to you Mr. Edison's
assistant, Mr. F. J. Sprague.

He wants to get some data with relation to the motor
you spoke to me about. Please give him such information as you
can, and we will see if we can fix you up a motor right away.

With kind regards, I remain,

Very sincerely yours,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke, positioned to the right of the typed name.

April 10th. 04.

Friend Bentley:-

Cannot you assist me towards getting the trade of supplying the principal Western Union offices with dynamo current? I could arrange to do the work very cheap, and I am sure my terms would be perfectly satisfactory to the Western Union officials, as I would make the payment depend ^{upon} the satisfactory performance of the work.

If you can assist me in any way, I shall feel very much obliged to you.

With kind regards, I remain,

Yours very truly,



Henry Bentley, Esq.

Philadelphia, Pa.

April 10th. 84.

D. H. Bates, Esq. Superintendent,

Baltimore and Ohio Telegraph Co.


Mills Building, New York City.

Dear Sir:-

I understand that Mr. Bentley of Philadelphia is perfectly satisfied with the small dynamo attached to gas engine, which he now uses to get current for the operation of his instruments.

Cannot we make some arrangement by which I could supply the main offices of your Company with dynamo current to replace the batteries you now use? I can do this work very cheap, and I would put the machines in on terms which I am sure would be perfectly satisfactory to you, as I would, make payment for the same depend on the proper performance of the work.

Yours very truly,



April 16th. 84.

Geo W
Geo. B. ~~W~~cott, Esq. Superintendent.

Gold & Stock Telegraph Co. New York

Dear Sir:-

I shall be glad to furnish you with one or more dynamo machines giving 200 volts and with capacity for supplying current for 50 of ^{your} ~~your~~ Stock Printer circuits of 150 ohms each, for the sum of \$2350.00 ^{per} ~~per~~ dynamo machine. I will guarantee that you will get perfectly satisfactory results from same, and if they should fail to do the above work, I will take them back from you without any expense at all to your Company, provided you notify me within 30 days after their delivery.

The above offer is open for ²⁰ ~~30~~ days, and should you decide to give me the order, I can probably arrange to deliver them to you about three weeks after date of order.

Please let me have your reply as early as possible.

Yours very truly,

JAE

April 17th. 1884.

Personal.

Erastus Winan, Esq.

New York City.

Dear Mr. Winan:-

I placed in Mr. Henry Bentley's office in Philadelphia a few months ago a small dynamo machine attached to a gas engine, in order to supply him with current for the operation of the Stock Printer, and other telegraph business there.

Would it not be possible for me to make some arrangement with you and your friends in Canada, to supply current in this manner for your main telegraph offices, and thus dispense with the expensive and troublesome batteries which you now use.

I would be willing to base the terms on the satisfactory performance of the work undertaken, which would protect your Company against any expense whatever unless results were attained.

If you write to Mr. Henry Bentley, I am sure he will tell you his dynamo works satisfactorily. In fact, the Gold & Stock Co ^{Telegraph} have asked me for estimates for a similar class of work after having heard ~~of~~ what I have done in Philadelphia.

Yours very truly,

DWS

April 17th, 84.

Thos. P. Conant, Esq.

Newburg, N. Y.

My dear Conant:-

All the "big-wigs" are going to visit the Newburg Station on Monday next. Mr. Edison, Major Eaton, Mr. Upton, in all probability Mr. Johnson, and the illustrious writer of this epistle will go up to Newburg on the afternoon train on that day, and you ought to do your level best to make everything look so nice that nothing but universal praise shall be heard as to our work there. The engine should be well cleaned. You should "polish up the handle on the big front door", and do whatever else is necessary to produce the best possible effect.

We are blowing about the Newburg Station, and consequently am anxious that everything should be in extremely good shape.

You should be able to tell us all about the number of lights connected, the number burning, and also some idea as to what ^{the} collections will amount to. In fact give us all information on every point you know about, and if possible on points you do not know about.

Yours very truly,



April 17th, 84.

Geo. S. Ladd, Esq.

222 Sansome St. San Francisco, Cal.

Dear Mr. Ladd:-

I placed in Mr. Henry Bentley's office in Philadelphia a few months ago a small dynamo machine attached to a gas engine, in order to supply him with current for the operation of the Stock Printer, and other telegraph business there.

Would it now be possible for me to make some arrangement with you, to supply current in this manner for your main telegraph offices in San Francisco, and thus dispense with the expensive and troublesome batteries which are now used.

I would be willing to base the terms, on the satisfactory performance of the work undertaken, which would protect the purchaser against any expense whatever unless results were attained.

If you write to Mr. Henry Bentley, I am sure he will tell you that his dynamo works satisfactorily. In fact, the Gold & Stock Telegraph Co have asked me for estimates for a similar class of work after having heard of what I have done at Philadelphia.

Yours very truly,



April 17th, '04.

Messrs Bergmann & Co.

New York.

Dear Sirs:-

We have your favor of 14th inst, and beg to say
that we have decided to keep the scrap copper ourselves for the
present.

Yours truly,

A handwritten signature, possibly initials, consisting of a large, stylized 'S' followed by a smaller 'D' or similar character.

April 17th, 84.

Thos. P. Conant, Esq.

Newburgh, N. Y.

Dear Sir:-

We have your favor of 13th inst, which explains to our satisfaction the matter of the resistance lamps. We can see that we have been wrongly informed in this matter. In fact, it would appear to us that a mountain had been made out of a mole hill, but inasmuch as we only had in view the mountain, it required a letter from you to show us that what really existed was a mole hill.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

April 17th, '94.

Henry. A. Clarke. Esq.

Baltimore, Md.

Dear Sir:-

Referring to your favor of 12th inst,- Mr. Hastings
informs us that the Light Co desire to post, one having the towns
canvassed which you mentioned.

Yours truly,

Thos. A. Edison, Const. Dept.

By *AE*

April 17th, 04

Albert G. King Esq.

382 Longwood Avenue, Roxbury, Mass.

Dear Sir:-

We are in receipt of your letter of the 16th, and enclosed beg to hand you copies of the estimates prepared by us for Waterville. We regret that you were not furnished with these earlier, but you did not make the request, and we had presumed when we handed copies to Colonel Bangs, before he left New York, that such action was in accordance with your wishes.

In relation to Richmond, we will as you request push work in connection with it. As soon as we can name a definite date for the completion of Richmond, we will do so.

Yours truly,

Thos. A. Edison Constr. Dept.

By



April 17th, 04

A. S. Kissell Esq.

Knoxville, Tenn.

Dear Sir:-

I have been unable to answer your letter of the 10th inst before to-day, owing to the fact that the information you requested has taken some time to prepare.

In compliance with your P. No. 1, I send herewith a specification for the construction of the Knoxville pole line, which gives all the details necessary to enable a contractor to bid intelligently upon the work.

In regard to our cash offer for same, have you not made a mistake in asking this question?. Our cashoffer is mentioned in our estimate.

Replying to your P. No. 2, we would take a contract to install this Knoxville plant, and have the station ready to supply light to lamps at any point along the mains, within 90 working days from the date of the signing of the agreement.

Referring to your P. No. 3, there is no machinery mentioned in our estimate which would remain unused, and therefore there is nothing, the cost of which we could deduct. There are a few tools, such as screwdrivers, hammers etc, which, if they can be purchased more cheaply in Knoxville, we are not particularly anxious to supply.

In relation to your P. No. 4, this is a method of advertising which rests in the hands of the agent, dealing with the information of a company in any town. An agent is supposed to communicate to the general public, in order to enthuse them through the best available channels.

Your P. 5 has been attended to. Please present my compliments to Colonel T. J. Saunders, and ask him to accept the photograph of myself, which goes forward to-day.

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke extending to the right.

April 17th, 84.

Jos Hutchinson, Esq. Secretary,

E. co for I. L. City.

Dear Sir:-

Referring to your letter dated April ---, - you can reduce the weight of your engine by increasing its speed; that is, you can use a smaller ^{engine} ~~engine~~ and by using 10' candle power lamps for Steamboats, a single 200 light machine should enable you to do the work you speak of.

I can allow a little extra margin on the machine by putting on an inch to the diameter of the field magnets.

Yours truly,



April 17th, 84.

W. L. Garrison, Esq.
Boston, Mass.

Dear Mr. Garrison:-

In order to prevent your drawing a wrong conclusion as to my recent offer, suggesting the use of a blower at Brockton, I may inform you that I did so on the advice of Mr. Pratt, the Treasurer of the Babcock & Wilcox Co, who has had experience in putting up boilers for about 300,000 horse power. He informed me that in all cases where small coal is used, his experience is that there is a gain of economy, and increased facility of working a boiler by using a blower in addition to a good natural draft.

I have very great confidence in Mr. Sim's opinion as to his engines, but when dealing with Babcock & Wilcox boilers I prefer to take the opinion of the makers of them. Personally, I do not believe in a multiplicity of advisers.

I write this by way of explanation, so that you will understand my reason for suggesting the use of a blower.

Yours very truly,



April 17th, 84.

W. L. Garrison, Esq.

137 Federal St. Boston, Mass.

Dear Sir:-

We have your favor of 16th inst, and have telegraphed you this morning to send Mr. Jones on, and we will see that he gets all instructions possible in connection with the working of the Light business.

We have ordered a dozen Pilsen lamps from Borgmann & Co, and will have them hurried through as quickly as possible. If there is much delay in getting these out, we can get other lamps temporarily.

Yours truly,

Thos. A. Edison. Const. Dept.

by 

April 17th. 64.

Major Eaton:-

I have received from Mr. Stewart of Santiago a copy of a letter which he has addressed to you and dated 13th March.

I would like to have your views on the matter, and also copies of the various contracts he refers to in his letter, so that I may judge intelligently of the questions he raises. If it would be too much trouble to make copies, cannot you loan me the original contracts, and I will be very careful to return them to you in good shape.

Yours truly,

Thos. A. Edison.
per McC.

April 17th. 04.

Societa Generale Italiana di Elettricit , Sistema Edison,
Via Manzoni, 12 A. Milan. Italy.

Dear Sirs:-

Your favors of the 5th of February, and 27 th March came to hand while I was absent from New York on an extended trip in the South. I will now take them up, and answer your various questions seriatim.

With relation to the "C" Dynamo,- I send you per express blue prints of the drawings for the modification of the present dynamos. I also enclose you herewith copy of a letter from the Superintendent of our Machine Works, explanatory of the drawings, and I also hand you a copy of the brief of the tests on the two dynamos which we have altered, and which we are now putting in our Central Station. You will notice that we have used on the field magnets exactly the same wire that was originally on the machines. This has been done for the sake of economy in the first investment, and in order to get the volts we normally require, we have altered the field regulating resistance, exact data in relation to which we will send you shortly. If you require any further information in regard to this matter, please let me know.

As advised you elsewhere, the Crank-shaft has been re-shipped to Milan.

I also enclose you a statement showing the general

arrangement of our dynamos; the various prices of same, and we hope to send you within a few days detail drawings of all these machines.

With relation to your request for information regarding the 3 wire system, I beg to say that although it is possible to connect the 3 wire system with the 2 wire system, yet it is not practical on a small scale. If you are going to install two or three times the amount of conductors that you now have, I would strongly advise you to adopt the 3 wire system; and I think I could then arrange to alter your present two wire system over to the 3 wire system, at a small cost as compared with continuing your present two wire system over a very extended district.

I do not think it would be possible for me to explain by means of correspondence the present methods adopted for calculating out conductors. It would be necessary to send a man to Milan in order to explain the matter. Mr. Batchelor will be here very shortly, and I will consult with him in relation to the matter, as I have a similar request to the one you make from the German Company, and I am rather in a difficulty now as to how it will be possible for me to comply with your request.

The various dynamos you speak of with extra armatures have all been shipped, and you have doubtless received same ere this.

quantity 100 to 200 lamps
11/15/12 200 lamps 5/2
1912

We are making shipments of lamps just as quickly as we can turn them out. As advised you by cable, we shipped 900 ten candle power lamps on the "Guttaedo" on the 12th inst. We shall make another shipment by the first steamer sailing.

We have endeavoured to trace up the error you allege in connection with our shipment of 27th December. We most invariably find that when complaints are made of any extensive short shipment that the barrels have not been completely unpacked. Only a few days ago we received a barrel back at the lamp factory as empty, whereas there was a layer of lamps in the bottom of the barrel. This was in connection with a shipment to some of our friends in this country. Will you please examine the barrel referred to again and have a careful count of your lamps made, and if you still find that there was a short shipment of 200 eight candle power lamps, we will credit you with the amount of same.

Referring to your letter of 27th March, - we have given you credit for the overcharge on the 750 lamps you speak of.

With relation to your enquiry as to what we will charge for 25,000 lamps delivered to extend over the current year, we beg to quote you prices as follows:-

8 candle power lamps,	40 cents
10	40
10	50
32	60
50	\$100
100	\$150

If you give us an order for 25,000 we will be willing to

to include one of
the following books
to the Library

forward them in ^{regular} required shipments extending over a year at above prices, and all charges as ^{such} freight and Insurance paid to Genoa. I trust these prices will be perfectly satisfactory to you.

With relation to your repeated enquiry about the Porter-Allen shaft, - we have answered this question in the foregoing.

The credit for sockets supplied to Bergmann & Co was an error. We have set this right in our correspondence with the Compagnie Continentale, who will have doubtless advised you of the matter.

Yours very truly,

JAE

PS:

Statement Re
Dynamite
sent under
separate cover

April 17th, 84

A. B. Smith Esq.

Appleton, Wis.

Dear Sir:-

We are in receipt of your letter of the 14th inst, and will immediately look into the suggestions you make, and report upon them.

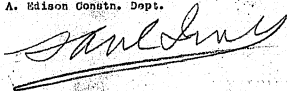
We are sending you to-morrow an estimate for a plant proposing 16 candle power lamps in Appleton.

We regret exceedingly, that it has been impossible to utilize to a greater extent the wire which you have on hand, but we, at the same time think you rather overestimate the loss you would sustain by having to abandon some of the wire at present in use, in fact we know that your figures are wrong, and when we send you a reply to your letter, now being acknowledged, we will show you where you err.

Yours truly,

Thos. A. Edison Constn. Dept.

By

A handwritten signature in cursive script, likely reading "T. A. Edison", is written over a horizontal line. The signature is written in dark ink and is somewhat slanted to the right.

April 17th, 84

E. C. Sims Esq.

Niagara Falls, N. Y.

Dear Sir:-

Enclosed we beg to hand you statement of running expenses, and also statement of probable profits of the Niagara Falls plant which it is proposed to install. We have assumed the capital of the Company as 15000 dollars, and on the statement we show in what manner the amount is distributed. In this distribution you will observe that opposite Edison Elec. Light Co. there is the amount of \$3750, this is the 25 per cent of the capital of the Company which the parent Company requires to be paid to them, for the rights granted the local Company. The real estate we have assumed as \$1000, and the water power connections as \$2500. We have no way of determining the correctness of these amounts, and have simply guessed at them. If they cost less it will increase the amount in your treasury, and if they are decreased to a very great extent, say \$1000 you could reduce the capital of the Company to \$14000, as it is not necessary to have more than 7 or \$800 in the treasury, unless the local Company wish it.

Yours truly,

Thos. A. Edison Constr. Dept.



April 17th, 84.

A. Stuart, Esq.

Secretary. Cincinnati, O.

Dear Sir:-

I have repeatedly been advised by my men that you have made offers to them with a view to their severing their connection with me, and entering into your service.

I do not think that your course in this matter is fair to me, or reciprocates the spirit which I endeavour to display in my dealings with you. If you want one of my men permanently in your employ, why cannot you ask me. Any of my men who are of absolute value to my business have such relations with me, that all such offers are invariably reported to me immediately.

Yours very truly,



April 17th. 1894.

H. Ward Leonard. Esq.
Middletown, O.

Dear Sir:-

I am obliged to you for your letter of 14th inst.

Mr. Stuart is of the impression that he can do Construct-
ion work himself without our assistance. He leaves out of con-
sideration a great number of factors, and from his want of ex-
perience minimizes all the troubles in connection with the business.

I do not think in your own interests, it would be ad-
visable for you to accept an offer from him unless it is made
through myself, as of course you would be greatly dependent upon
information from here in order to attain successful results in
connection with your work.

I suggest that you refer Mr. Stuart to me the next time
he makes any reference to the matter to you.

Should an opportunity occur of placing you near home, and
a position where you could do good work for the Edison Light in-
terests, and consequently gain credit for yourself, I think you
can rely upon my seeing that you are not forgotten.

Yours very truly,



April 17th, 84

John R. Markle Esq.

153 Griswold St. Detroit, Mich.

Dear Sir:-

We are in receipt of your letter of the 14th inst, in relation to the number of poles required at Hillsdale. The correct figure is 473 as mentioned in a detailed specification which we sent you. We think you have another list, which mentions material consecutively, and which was given you in error. The long specification, upon which you made some notes, is the one which you must consider as being correct, and the other you had better destroy.

The lengths of the poles, as given in our specification, are the extreme lengths, for instance, where we call for a 40 ft. pole, which is to be set 5 feet in the ground, it stands 35 feet above the surface of the earth.

We do not require the contractor to furnish the safety catches, but we do ^{require} the contractor to furnish insulators, which are to be placed upon all cross arms.

The 2400 pounds galvanized wire No. 12, is for guard and pressure, and is furnished by us. We explained this to you when you were here, and we stated that all the wire was to be furnished

12-11-1907
12-11-1907
12-11-1907

by us, and that the person who desires to take the contract for the work is required to run it.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 18th, 84

W. R. Douty, Esq. Pres't.

Edison Elec. Ill. Co. Shamokin, Penna.

Dear Sir:-

We received last month a letter from Mr. Doubleday, in which he stated that you desired to change one of your "H" machines and substitute two "S" dynamos.

We have sent to Mr. Doubleday an estimate of what we will do this work for, and enclosed we beg to hand you a duplicate.

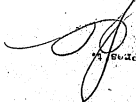
You will observe that the amount which we will charge is \$1,909.57 less \$1300, which we allow you for one "H" dynamo returned to us, leaving a cash transaction of \$609.57.

Awaiting your further communication on this subject, we remain,

Yours truly,

Thos. A. Edison Constn. Dept.

By



W. R. Douty, Esq. Pres't.

APRIL 18th, 84

April 18th, 1884

A. Stuart Esq. Treasurer

Edison Elec. Ill. Co. Middletown, Ohio.
Cincinnati, Ohio.

Dear Sir:-

I am in receipt of your letter of the 16th inst, enclosing check No. 17509 on U. S. National Bank of New York for \$6,004.65 in payment of the second instalment of 50 per-cent of the amount of your contract with me for the installation of the Middletown plant. I have pleasure in enclosing receipt herewith.

Very many thanks for your explanation of the delay, I will as you request treat the matter confidentially.

Yours truly,

April 19th. 04.

A. Stuart, Esq. Secretary.

Ohio Edison Electric Installation Co.

Cincinnati, Ohio.

Dear Sir:-

I have a note from ^{dated in the report above} Mr. Boyer who is at Tiffin in
which he says:-

"I am glad to be able to report a considerable abatement
in the lamp breakage for seven days, April 5th to 11th inclusive
14 lamps, or two per day; and from April 1st to 16th there were
only 81 lamps broken, or an average of 163/100 per day."

Yours truly,



April 19th, 184.

A. Stuart, Esq. Secretary.

Ohio Edison Electric Installation Co. Cincinnati, O.

Dear Sir:-

I have your favor of 17th inst, and am obliged to you for the trouble you have taken to give us at such length your views with relation to the construction of Central Station Plants.

I take everything ^{you say} in exactly the spirit in which it is meant, and as soon as you get through at Circleville, I do, not doubt but that Mr Edison will be very ^{glad} ~~pleased~~ to look into the matter and discuss the question with you.

I am, Very truly yours,

AJ

April 21st, 84

W. S. Andrews Esq.

Piquette, Ohio.

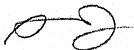
Dear Sir:-

In reply to your letter of the 17th inst, in regard to building up safety catches, we beg to say that you can decide yourself what is best to use, and submit us orders for safety catches accordingly.

Yours truly,

Thos. A. Edison Constn. Dept.

BY



April 21st, 84.

W. S. Andrews Esq.

Piqua, Ohio.

Dear Sir:-

We are in receipt of your letter of the 10th inst, in regard to the governor of the engine at Hazleton.

We have a letter from the Treasurer of the Hazleton Company, in which he states that the injector is working in a very unsatisfactory manner. As you suggest we have written to Doubleday to run over there and see if he can fix it up.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 21st, 04

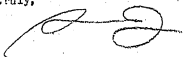
Erastus Wiman Esq.

P. O. Box 803 New York.

Dear Sir:-

Very many thanks for your letter of the 18th inst, in relation to the dynamo which I propose using in Toronto. I should not desire to put it in, unless it will effect a yearly saving. In regard to your son, as soon as he is ready, I will be happy to ^{visit him} ~~visit~~ in a chance.

Yours truly,

A handwritten signature in dark ink, appearing to be 'J. D.', written in a cursive style.

April 21st, 84

W. H. Dwelly Esq. Treas.

Edison Elec. Ill. Co. Fall River, Mass.

Dear Sir:-

In relation to the engine and blower which we have sent to Fall River, we beg to say that Mr. Pratt of the Babcock & Wilcox Company, informed us that it was very desirable to use the blower and engine with their boilers, when they are used for electric lighting purposes. As you understand it is very often necessary to ~~raise~~ raise pressure very quickly, and even under the most favorable circumstances, in relation to natural draft, the pressure is not as high as it should be within a given time. In addition to this, it is of great assistance to the engineer, who has to do his own firing, and enables him to take care of a larger station capacity than would be possible without the assistance of the blower and engine. We do not of course intend to charge you anything for this apparatus, but would simply ask you to put up ^{it}.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 21st, 84

H. M. Doubleday Esq.

c-o Edison Elec. Ill. Co. Shamokin, Penna

Dear Sir:-

The Treasurer of the Hazleton Ill. Co. reports to us that the injector is giving very great dissatisfaction. Please run over there as quickly as possible, and see what the trouble is, and have it remedied.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 21st, 84.

A. Stuart, Esq.

Cincinnati, Ohio.

Dear Sir:-

I have your letter of 19th inst. My information seemed so absolute that I did not think it necessary to write and ask you as to the facts.

I am very sorry that my letter of 17th inst should have caused you so much irritation, as I had no intention whatever, of in any way hurting your feelings. From the statement I had heard, I thought it best to communicate with you immediately, and I am very glad indeed that your letter denies the reports which had reached me.

Trusting that this explanation will be satisfactory, I remain,

Yours very truly,



April 21st, 84

A. L. Smith Esq.

Appleton, Wis.

Dear Sir:-

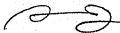
In further reference to your letter of the 17th inst, we beg to say that according to the chart of Appleton, which you sent us, you have 332 lights connected up to the dynamo machine which you propose to have supply light to the dwellings mentioned in your communication under reply. It will therefore be impossible to load this dynamo further.

The 400 light dynamo in our estimate, which you state only cost \$600 is an "S" machine. We would remind you that the estimate you refer to proposes the use of 10 candle power lamps, and this "S" machine is capable of supplying 400 lamps of this candle power, but only 200 16 candle power lamps. We will write you again to morrow in relation to the "K" machine, and your queries in regard to same.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 21st, 84

A. Stuart Esq. Secretary

Ohio Edison Elec. Installation Co.

Cincinnati, Ohio.

Dear Sir:-

Replying to your letter of the 16th inst, we beg to say that we will rush matters in connection with Troy and Covington to the fullest possible extent. The former is not yet mapped, and the chart of the latter will be finished to morrow night. Before the end of the week, we will send you Covington estimate, and Troy will follow quickly for real estate.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 21st, 04

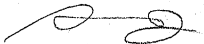
John W. Lawson

Edison Lamp Co. East Newark, N. J.

Dear Sir:-

I am in receipt of your letter of the 18th inst, in relation to the note book in the possession of Mr. Herrick. As this book belongs to me, you are hereby authorized to take it, and bring it to me.

Yours truly,



April 23rd, 184.

Mrs M. H. Dradt.

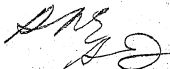
Glen Falls. N. Y.

Madam:-

Referring to your favor of 21st inst, I beg to inform you that my time has been so fully occupied in the development of other inventions that I have been unable to give any attention to the instrument you speak of for the relief of deaf people.

I fully appreciate the importance of getting up such an instrument, but at the present writing I cannot say when I will be able to carry out a line of experiments with a view to perfecting the same.

Yours respectfully,



April 22nd, 64.

D. H. Burroll. Esq.

Little Falls. N. Y.

Dear Sir:-

I have your esteemed favor of 18th inst.

I have not forgotten about the work suggested for improvements in connection with dairy business, but my time has been so fully occupied in connection with other matters that I have been unable to do much in connection with it.

With relation to engines:- We use the engines built by the Armington & Sims Co, of Providence, R. I. They work perfectly, and cost us about half the price, per horse power as compared with any other engines which it is possible to use in our business. I should much prefer that you wait until the engine you speak of has made a good record in several factories, before going into the matter of a test of same.

Yours very truly,



April 23rd. 04.

T. P. Conant, Esq.

Newburg. N. Y.

Dear Sir:-

Col Sherman has returned from Newburg, and in conversation incidentally remarked that there was a breakdown there yesterday in connection with the large engine prior to starting the plant for the night's work.

We are surprised that we got no report of this by this morning's mail or by telegraph from you. If any trouble occurs in connection with our plants, and we do not hear of it, we are placed in a very peculiar position, as a report is bound to reach this office from one source or another, and when we are asked to authenticate same, people do not seem to realize that it is just possible we may not have been posted as to the matter.

What we wish you to understand is, that we want a report of every trouble in connection with a plant where you are stationed. We do not blame you for such troubles or anybody else. We simply wish to be posted so that we may know how the business is running.

Did not some trouble occur previously in connection with

2.

this engine?. If so, what was it?. Was it before you arrived at Newburg or after?.

A very large party of gentlemen are going to Newburg on Thursday afternoon, and it would be a very fatal blow to our Dept if the engine did not run properly.

If we had heard last night that there was any trouble with the engine, we should have at once ordered a man from Armington & Sims to go to Newburg, as it is imperative that everything should be in good shape on Thursday; and furthermore, the Newburg people have a right to expect us to do everything possible for them, inasmuch as they have treated us so very well.

little troubles may not seem to be of much consequence to yourself, but we assure you that the fact of our not hearing of them very seriously prejudices us in the eyes of the Edison Electric Light Co, and of their friends.

Yours very truly,



April 22nd, 04

Chas. T. Hughes Esq.

Morgan House Poughkeepsie, N. Y.

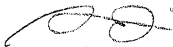
Dear Sir:-

I sent you a note yesterday stating that our visit to Newburgh was postponed until Thursday. Mr. Edison has been rather under the weather for the past few days, but we will go on Thursday without fail.

Mr. Upton, Major Eaton, and a number of gentlemen connected with the proposed Oswego Company will be with the party.

Enclosed I beg to hand you three letters which have come here addressed to you.

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke, positioned to the right of the typed name 'Yours truly,'.

April 22nd, 84

J. W. Sorrell Esq.

140 Nassau St. City.

Dear Sir:-

I sent the attached notice to Mr. Taylor of the Gold Stock Telegraph Company, and beg to call your attention to his notes on the back. Will you please let me know what form of action is necessary on my part in this case and oblige.

Yours truly,



April 22nd, 84

P. S. Hastings Esq. Treasurer

Edison Electric Light Co. New York.

Dear Sir:-

Referring to our accounts against you in connection with canvassing and making estimates, we shall be glad if you will let us have a check for \$5,000 on 1st May, and another check for \$3,000 on the 10th May, in part settlement of this account.

As this part of the account has been before you since December last, we trust you will comply with our requests as above, inasmuch as we have a very heavy payment to meet in the early part of May.

Your early reply to this will greatly oblige us.

Yours truly,

Th s. A. Edison Constn. Dept.

By 

Apr 23rd, 04.

Straight Line Engine Co.

Syracuse. N. Y.

Dear Sirs:-

I have your favor of 21st inst.

I propose to send up the Superintendent of our Machine Works to look at the engine you have built, and will write you further as to the exact date of his visit to Syracuse.

Yours truly,

A handwritten signature in cursive script, appearing to be 'J. W. G.', is written over the typed name 'Yours truly,'.

April 23rd, 04.

James Harris, Esq. Secretary.

Edison Electric Illuminating Co. Bellefonte, Pa.

Dear Sir:-

We have your favor of 18th inst. The proposition made to you by us is a very liberal one, and will involve upon us quite a heavy loss on the total work in connection with your contract. We do not think your Directors can fairly ask for any modification of it, with a view to our bearing any further expense than we are willing to, as per our proposal to you.

We must ask for an early decision in relation to this matter; as otherwise our men will be engaged on other work, which will cause very considerable delay in connection with the proposed work for you.

Yours truly,

Thos. A. Edison, Const. Dept.

By 

April 22nd, 191.

Gustav Soldan, Esq. Supt.

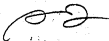
New York.

Dear Sir:-

Ernest informs me that you would like to have an order for a dozen of each kind of switchboards, and brush-holders, in order to enable you to keep certain men at the Works.

Our policy is to shut down the shop, and dispense with every class of labor possible as soon as we get through with our work. To give the order referred to, simply means to continue a heavy general expense so far as I can see. I think it would be well for you to come up and see Mr. Edison and myself about this ~~order~~ ^{order}. We also want to see you about your going to Syracuse, to see the straight line engine running there, that we ordered some months ago.

Yours truly,



April 23rd, 8

A. Stuart Esq. Secretary.

Ohio Edison Elec. Installation Co.
Cincinnati, Ohio.

Dear Sir:

In accordance with your request received a few days ago, we have pleasure in enclosing a scheme for running wires at Circleville, in accordance with our electrical determination for the 1000 light plant.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 23rd, 1914.

W. S. Andrews, Esq.

Piqua, O.

Dear Sir:-

Referring to your letter of 20th inst, we cannot conceal our surprise that you did not inform us of the original error made by Mr. Hibler.

You state that in the first case he put up No 10 wire. Now at the time the wire was put up, and even for some months to come, it would be impossible with the load the Hazleton people now have for there to be any very great drop even though No 10 wire had been used. The putting up of the 0 wire was practically no advantage; it involved us in extra expense, damaged the wire so that when taken down we cannot possibly sell it for much more than scrap, and now you suggest that we put in yet a third wire in place of the No 0.

We have looked carefully over the scheme for wiring at Hazleton, and we cannot discover any place where No 7 wire is used. Will you please inform us where you got your information as to this.

No 2 Feeder requires No 5 wire. We presume this is the feeder you refer to. The total length of this feeder is about 150

2.

feet, so that for the three wires we would require about 450 feet of wire. Is this the fender you refer to?

We must ask you to inform us of every trouble of any kind which you notice in connection with all work, whether you are immediately responsible for it or not. We would remind you that you are working for this Department and not for any of your co-workers who may be attached to the Dept. Consequently, we naturally expect you to inform us of everything in connection with our business that you think would interest us, and there can be no doubt but what this error would have interested us very much, and if we had known it in the first place, we would have been saved considerable expense now. The writer had some conversation with you on this subject some time back, and insisted on the above views. It is not a question of loyalty to those who have control of other branches of our work, but it is a question of what we have a right to ask of everybody who is working for us.

Yours very truly,



April 23rd, 84

Babcock & Wilcox Co.

30 Cortlandt St. City.

Dear Sirs:-

We have on hand at Piqua, Ohio a 51 horse power boiler which was shipped there by you upon a requisition from us during the month of January last. As you are aware the Piqua Company decided to install a plant of 1000 lights, instead of 500, thereby rendering it necessary for us to furnish a boiler of greater efficiency than the one in question. This latter was shipped to Piqua and is in service, and the former we desire to dispose of, and would like to know, if you would very kindly consent to take it back, we of course delivering it into your hands free of all expense to you, and we will also pay for any repairs which may have been rendered necessary owing to the fact of its having been shipped to and fro from Piqua.

Awaiting your reply, we beg to remain

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 23rd, 64.

W. M. Brock, Esq. Manager.

Edison Electric Illuminating Co, Shamokin, Pa.

Dear Sir:-

Your letter to Major Eaton giving list of complaints, has been referred to us.

We shall ship the balance of pressure indicators required in your station.

We shall probably send one of our men to Shamokin within a day or two to collect the necessary data to enable us to figure out the cause of the difference in pressure.

Yours truly,

Thos A Edison Const Dept

By 

April 23rd, 1914.

Western Edison Light Co.

Chicago, Ill.

Dear Sirs:-

Again referring to your favor of 14th inst, we beg to inform you that the new style of armature has 44 bars, and it has a resistance of about .033 ohms as against an average resistance with the old style of .0364 ohms. We get 230 amperes at the standard speed of the "J" machine.

Yours truly,



April 23rd, 1914.

James Harris, Esq. Secretary.

Edison Electric Illuminating Co. Hellefonte, Pa.

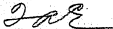
Dear Sir:-

We have your favor of 21st inst, and in reply beg to state that the proposition made to you in our letter of the 15th inst is the best we can possibly do. As stated in that letter, we consider our ~~offer~~ ^{position} a perfectly good one, and our only object in making the offer to you was that you might feel perfectly satisfied.

If we carry out the work as suggested in the above referred to letter we shall be absolute losers on your contract of about \$1,000. You will therefore see how impossible it is for us to make any further concession.

We considered at the time we made the proposition that it was a very liberal one, and when Major Eaton was informed of it he gave a similar opinion. As contractors we cannot possibly afford to do anything more.

Yours very truly,



April 23rd, 1884, 4

Edison & Swan United Electric Light Co, Ltd.

London, England.


Dear Sirs:-

Mr Edison referred to us your cable of yesterday's date, asking for price and date of delivery of four dynamos having output of 250 amperes, running 110 volts, with speed of 300 revolutions; and we requested him to cable you that if you would give us assurance of your future trade in slow speed dynamos, we would be willing to build an experimental machine at our own expense, and quote price for the machines you want for your present purpose inside thirty days.

In order to get up the dynamo you require, we would have to spend quite a considerable sum in building an experimental machine under the direction of Mr. Edison, and we should not feel at all disposed to do this unless we could look forward to getting further orders from you; inasmuch as we could by no means build four machines for you and clear ourselves on same at any reasonable price, considering what the experimental machine would surely cost us. We are anxious to assist you in every way, but you will doubtless recognize that it would be very unfair to us to get

2.

up the machine you require, and run the risk of not getting any further orders from you, owing to your having the machines built elsewhere. There is no demand in this country for machines of the above character, and we should consequently be compelled to build a special line of machines for you. This we are perfectly willing to do, provided we can rely on getting you trade for this class of machine.

Yours very truly, 
Secretary & Treasurer

Copies of this letter were also sent to:

Chatterton, M.C.
Cooke, Charles H.
Grimshaw, James T.
Lyon, Charles P.
Mensch, Carl
Moore, A.T., Jr.
Stewart, John M.

April 23rd, 84

G. W. Wilber Esq.

Dear Sir:-

Owing to certain changes which are taking place in connection with our business, it has become imperative that we should decrease our staff, and we are therefore very reluctantly obliged to notify you that after Thursday the 1st inst, we will no longer be able to give you employment.

Nothing but the necessity of circumstances has impelled us to pursue this course, as your duties have been very faithfully and efficiently discharged, and we will be happy to give you a letter certifying to this fact, should you desire it.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 23rd, 84

W. S. Andrews Esq.

Piqua, Ohio.

Dear Sir:-

Will you please let us know as quickly as possible just how many, and the names of your men, whose services you can at the present time conveniently dispose of.

Certain changes are taking place in connection with our business, which render it necessary for us to reduce our staff to a minimum, and we should like this information at once, so that no time may be lost in effecting our object.

Yours truly,

A handwritten signature in dark ink, consisting of several overlapping loops and a long horizontal stroke extending to the left.

April 23rd. 91.

Major Eaton:-

We shall ship all the ~~necessary~~ pressure indicators necessary for Shamolin, and to-morrow we shall send Mr. Dyer our canvasser, there with a view to getting the ~~data~~ ^{necessary data} on which to figure out the exact cause of the great variation in pressure.

S Insull.

per McC.

Apr 23rd, 84.

Gardiner C Sims, Esq.

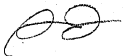
Providence, R. I.

Dear Sir:-

It is important that the matter of licensing us to make the Lawrence engine should be settled prior to Governor Howard's trip to Europe.

Do not you think you should come on to New York, and confer with Mr. Edison in relation to the matter?; or is it probable that Governor Howard will be in New York shortly?, as if so, it would be well for him and yourself to see Mr. Edison together.

Yours truly,

A handwritten signature in dark ink, consisting of two large, overlapping loops, resembling the initials 'CS' or 'GS'.

April 23rd. 84.

Thos. H. Righter. Esq. Treasurer.

Edison Electric Illuminating Co. Mount Carmel. Pa.

Dear Sir:-

We have your favor of 23rd inst covering check for \$1,000, receipt for which please find enclosed herewith.

We hardly think that the reason given by you should be urged by you as an excuse for payment ^{on} your contract being so long delayed. We have long ago been compelled to pay for all the material which was used in connection with your plant, and the fact that we were not paid, is not allowed by the people we buy from as an excuse for our not paying them.

We would suggest that you take some measures to settle our account, as we are urgently in need of the money which you owe us.

Yours very truly,

Thos A Edison Const Dept.

By 

Apr 23rd. 84.

H. H. Porter, Esq.

Dept of Public Charities & Correction.

66 Third Ave. New York.

Dear Sir:-

Referring to your letter of this date, I regret to inform you that Mr. Edison is quite unwell and unable to get to the office. The appointment that you made must therefore be postponed for a few days.

I will advise you immediately Mr. Edison is able to attend to business again.

Yours truly,



April 24th, 84

W. S. Andrews Esq.

Piqua, Ohio.

Dear Sir:-

Enclosed we beg to hand you a letter from Mr. Stuart of the Ohio Edison Elec. Installation Co., in regard to street lighting in Middletown, and under separate cover, we send a chart of that place showing the present course of the mains and feeders. We wish you would communicate with Mr. Leonard, or obtain yourself the information in regard to where the extra mains are to run, the number of feeders, and poles, and also where each lamp is to be located, also explain how the new wires are to connect with our center wire, and let us have this information as quickly as possible, as we desire to give Mr. Stuart an estimate of the cost of the work at the earliest possible moment.

Yours truly

Thos. A. Edison Constn. Dept.

By

April 24th, 84

J. F. Bunn Esq. Vice president

Edison Elec. Ill. Co. Tiffin, Ohio.

Dear Sir:-

Referring to your letter of the 15th inst, in regard to the extension of the Tiffin lines, we beg to say that we have had an electrical determination prepared, and we will send you an estimate of the cost of making this change early next week. It has been a rather lengthy matter to prepare, as some of the present wires will of necessity have to be changed. We will give you complete details when forwarding the estimate.

Trusting this will meet your wishes, we beg to remain

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 24th, 84

A. Stuart Esq. Secretary.

Ohio Edison Elec. Installation Co.

Dear Sir:-

We are in receipt of your letter of the 12th inst. in regard to lamp breakage. Mr. Upton informs us that the 100, and 50 candle powerblamps have now the same life as the regular lamps.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 24th, 84

A. Stuart Esq., Secretary.,

Ohio Edison Elec. Installation Co.
Cincinnati, Ohio.

'Dear Sir:-

Enclosed we beg to hand you our estimate for the installation of electrical apparatus for an Edison Elec. Light Plant, at Circleville, Ohio, of 1000 lamps capacity, and amounting to \$5,830.45. This amount in addition to the material detailed in the schedule, provides for the services of two experts, one to be in Circleville for 50 days, and our chief electrical engineer to have general supervision of the work. The items have been entered in exact accordance with the list you furnished us. Kindly advise us at once if you desire us to take charge of this portion of the work.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 24th, 84

William Schwank Esq. Pres't.

Edison Elec'l Ill. Co. Mt. Carmel, Penna

Dear Sir:-

By referring to our estimate for the installation of the Mt. Carmel plant, you will find that under the head of "Testing and Regulation; Switches and Indicators", we have included two equalizers for feeders, the amount charged for same being \$172.50. Owing to the fact that where one feeder alone is used, two feeder equalizers become unnecessary, and we have determined to cut this out of the estimate, and give you a credit on the contract of \$172.50.

Yours truly,

Thos. A. Edison Constn. Dept.

BY

April 24th, 84

A. Stuart Esq. Secretary

Ohio Edison Elec. Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We are in receipt of your letter of the 22nd inst, in regard to street lighting in Middletown, and as far as we can see, without going further into details, the idea appears feasible, and the suggestion good.

We have sent Mr. Andrews a map of Middletown, with the mains marked on it, and have requested him to locate the route of the extra mains, the position of the poles, and also where each lamp is, and how the new wires. As soon as we obtain this information, we will calculate the cost and give you our ideas as to the amount for which you can afford to take a contract for the city lighting. This matter will be rushed for you.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 24th, 84

W. C. Mustain Esq.

Horse Cave, Ky.

Dear Sir:-

I am in receipt of your letter of the 22nd inst. In reply to your first query, I beg to say that lightning rods are a protection if the connection with the damp earth is good, and there is plenty of surface.

Replying to your second query, I would ~~advise~~ ^{enter} the rods should be connected in metallic circuit, and ~~in~~ the earth at two or more points.

Yours truly,

April 24th, 84

Henry Bentley Esq. Pres't.

Philadelphia Local Telegraph Co.

107 South Third Street Philadelphia, Penna.

My Dear Mr Bentley:-

Very many thanks for your letter of the 23rd

Inst.

I have been asked by Mr. Scott to bid, and have done so.

Do you think I could supply the Philadelphia main
offices with an outfit for their main line locals &c.

Yours truly,

April 24th, 84

T. Cornell Esq.

Rondout, N. Y.

Dear Sir:-

I beg to acknowledge with thanks receipt of your letter of the 22nd inst, enclosing chart of Rondout marked with the location of available real estate for electric lighting purposes.

Let me express my regret at not having had the pleasure of meeting you at Newburgh last night.

Yours truly,

April 24th, 84

L. Duncan Esq.

John Hopkins University Baltimore, Md.

Dear Sir:-

I am in receipt of your letter of the 21st inst. Will you please give me the number of volts required at terminals of machines, and also the amperes required while charging the batteries. Upon receipt of this information, I will reply to your letter.

Yours truly,

Thos. A. Edison.

April 25th, 04.

W. M. Brock. Esq. Manager.

Edison Electric Illuminating Co. Shamokin, Pa.

Dear Sir:-

Again referring to your letter of 16th inst addressed to Major Eaton, we beg to advise you that our Mr. Dyor leaves for Shamokin to-night, and will collect the data necessary for us to figure out the ^{cause} ~~cause~~ of the trouble you have with lamp break-
age.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

April 25th. 84.

Frank. J. Sprague, Esq.

New York.

Dear Sir:-

I beg to acknowledge receipt of your favor of 25th inst, resigning your position as Electrical expert in connection with the Construction Dept.

Yours truly,

A handwritten signature in dark ink, appearing to read 'F. J. Sprague', written in a cursive style.

April 25th. 04.

Fred Catlin, Esq.

195 Broadway. New York.

Friend

~~Dear~~ Catlin:-

Yours of 25th inst came to hand this morning.

I am at 65 Fifth Avenue every day from 10 A.M until 5

P.M.

Yours truly,

JAC
DD

April 25th. 84.

James Harris, Esq. Secretary.

Hollifonte, Pa.

Dear Sir:-

We beg to acknowledge receipt of your favor of 24th inst, accepting proposition contained in our letter of 8th inst, provided that the extension we propose to put up be of sufficiently heavy copper to enable you to make a still further extension of 600 feet on your Plant.

We have figured on the matter, and find it will cost us some little extra expense, but under the circumstances will comply with your request.

We shall look forward to receiving check for \$2500 from you to-morrow, and a further check for \$2500 a few days later, as stated in your above referred to letter.

Yours truly,

Thos. A. Edison. Const. Dept.

By



April 25th. 1914.

Major Eaton:-

We are sending Mr. Dyer to Shamokin to-night. As soon as we get his report we will be able to state exactly what is necessary to be done there in connection with fixing the plant up in better shape, so far as the pressure is concerned.

S Inaull,
per McC.

April 25th, 184.

Major Eaton:-

I enclose herewith letter from Bellefonte. The remark about Stock not being taken we consider fully justifies all we have said in relation to this matter, so far as Pennsylvania towns are concerned.

T. A. Edison,
per McC.

April 25th, 04.

Major Eaton:-

Referring to annexed letter from Mr. Fruosi;- I am willing to sell the dynamo to the Tub. Co. at the factory price, provided you will give your permission. It is necessary that he should have current, and he is now put to very great inconvenience by having to get same at Geerck St. so I presume under the circumstances you will not object to my selling him the machine.

T. A. Edison.
per McC.

April 25th, 1914.

H. H. Doubleday, Esq.

Shamokin, Pa.

Dear Sir:-

Will you please inform us by return whether anything has been done with relation to our estimate for alteration of Central Station at Shamokin?

Also let us know whether all the old pressure indicators have been re-shipped to New York.

Yours truly,

Thos. A. Edison Const' Dept.

By



April 25th. 04.

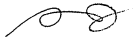
Gustav Sojdan, Esq.

Supt. New York.

Dear Sir:-

We have your favor of 25th inst, and in reply would state that the 250 ampere dynamo to run at 300 revolutions should give 110 volts with full load on. Will this make any difference in your figures?

Yours truly,

A handwritten signature in dark ink, consisting of several loops and a long horizontal stroke extending to the right.

April 25th. 84.

Gardiner. C. Sims, Esq.

Providence, R. I.

Dear Sir:-

I am obliged to you for your favor of 24th inst, and shall be glad to see Gov Howard and yourself.

Yours truly,

A handwritten signature in cursive script, appearing to read "G. C. Sims". The signature is written in dark ink and is positioned to the right of the typed name "Yours truly,".

April 25th. 04.

Manager.

Clarendon Hotel, New York.

Dear Sir:-

I beg to notify you that I propose to vacate the rooms
I now occupy in your hotel, on May 1st.

Yours truly,

A handwritten signature in dark ink, appearing to be 'J. G. G.', written in a cursive style.

April 25th. 04.

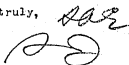
Christopher. A. Peirce. Esq.

P. O. Box 1359. Providence, R. I.

Dear Sir:-

I have your favor of 25th inst, and in reply beg to state that the gold in placer sands on Snake River is free and mixed with white quartz and black magnetic sand. My machine will separate about 50 tons perday of the auriferous sands inttwo parts, one part containing magnetic sand and the other containing white sand and gold.

Yours truly,



April 26th, 64

Chas. P. Lyon Esq.

Windsor Hotel, Manchester N. H.

Dear Sir:-

Replying to your letter of the 25th inst, in regard to
obtaining employment for you, we beg to say that we think your
inactivity will only be temporary.

Yours truly,

Thos. A. Edison Constn. Dept.

By

April 20th. 64.

A. Stuart, Esq. Secretary.
Cincinnati, Ohio.

Dear Sir:-

I received your very flattering telegram this morning, and was sorry to have to reply that my health would not permit of my making the trip to Piqua.

I would be very glad to go indeed, if only out of compliment to your Company, but I have such a severe cold which has been very much aggravated by my having to be at the office every day that I do not think it would be at all wise for me to make so long a trip.

My advices from Piqua are that the Station there will be started on Monday night. If you can send me a draft on New York for the amount of the second payment on the Piqua contract *(11500.)* so that it will reach here by Thursday morning, I shall feel very much obliged. I do not doubt but that I can rely on your doing so, as I know your habit is to pay promptly.

Hoping that the Piqua Plant will be a success, I remain,

Yours very truly,

J. R.

April 20th. 04.

W. S. Andrews, Esq.

Piqua, O.

My dear Andrews:-

Immediately the Piqua Plant starts, we are entitled to a check for \$11,500. This check will be payable *to* Mr. Stuart, and should be sent to us in such shape as to of immediate use to us, by means of a draft on New York. I am in a very bad hole. I suppose you will say this is nothing new, but I want you to again try and help me out, and do your very level best to get Mr. Stuart to send us a draft so that it will reach here not later than Thursday morning next. You have been so successful heretofore in getting money for me that I feel confident you will not fail in this case. Please wire me immediately you have any information as to what the prospects are of my getting money.

With relation to the rumours you have heard about re-organization, and the letter I sent you asking which of your men I should discharge, I beg to say, that we are making arrangements by which all construction work will in all probability be done by the Isolated Company. For the purpose of these negotiations and to produce an effect on those we are negotiating with we find ourselves compelled to relieve ourselves of the greater part of our

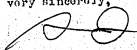
2.
present staff, although, I presume before their connection with us ceases we shall have made a deal by which I will hand them over to someone else.

Of course the above information is for yourself alone. The outcome will be all right. I will explain more fully to you when I see you in New York.

We were all up to Newburg the other night, and Mr. Edison is simply delighted with the work there. You and your staff deserve the highest possible compliment for the progress you have made since putting in the first station at Sunbury, and I do not mind telling you that we feel quite proud of our Electrical staff.

Now do your best to get money for me, and you will make me happy.

Yours very sincerely,



April 28th, 84

W. S. Andrews Esq.

Piqua, Ohio.

Dear Sir:-

We are in receipt of your letter of the 25th inst, and in reply beg to say that we would not advise the use of No. 16 dirty white wire for open cleat work. Can you utilize it in connection with concealed work?

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 28th, 1884

W. S. Andrews Esq.

Piqua, Ohio.

Dear Sir:-

Replying to your letter of the 24th inst, in reference to the Hazleton feeder, we beg to say that it was not our intention to convey to you the idea that we thought you were disloyal. We have had many criticisms made by certain parties in regard to our being unacquainted with all the details of our outside business, and in many cases we know that these criticisms were justified, as some of our employees had omitted in many cases to report to us matters which we should have known, and when these reach our ears through outside channels it makes it very unpleasant for us.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 28th, 1884

W. S. Andrews Esq.

Piquette, Ohio.

Dear Sir:-

I am in receipt of your letter of the 25th inst, in reference to dispensing with the wooden portion of the present pole line safety catches. I will have a talk with you in regard to this, the next time you are in New York.

Yours truly,

A handwritten signature in dark ink, consisting of several overlapping loops and a long horizontal stroke extending to the right.

April 28th, 84

M. F. Adams Esq.
City.

Dear Sir:-

As soon as this note reaches you will you very kindly telephone up here and make an appointment to meet Mr. Edison's attorney, Mr. J. C. Tomlinson, and very much oblige.

Yours truly,

April 28th, 84

William H. Brock Esq., Manager.

Edison Elec. Ill. Co. Shamokin, Pa.

Dear Sir:-

Your letter of the 16th inst, addressed to the Edison Elec. Light Co., in regard to feeder regulators, has been referred to us for reply. We have sent a man to Shamokin to see to the uneven pressure at the end of the feeders, and the matter of feeder regulators is having our attention.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 28th, 84

Wm. Brock Esq. Manager.

Edison Elec. Ill. Co. Shamokin, Pa.

Dear Sir:-

Your letter of the 19th inst addressed to the President of the Edison Elec. Light Co., has been referred to us for reply. We would state that we are doing all we possibly can to put the Shamokin station in proper shape, as regards all necessary electrical appliances.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 28th, 94.

Garret, D. W. Vroom, Esq.

Tronton, N. J.

Dear Sir:-

Your favor of April 23rd was duly received.

The letter you speak of as written to Mr. Reiff was not received by Mr. Edison until the other day, which accounts for his ignorance that an execution would be issued.

Mr. Edison feels that the judgment is one he should not be compelled to pay, as the note on which it was obtained was given to Mr. Seyfert for his accommodation, and was practically liquidated in their negotiations concerning the Automatic Telegraph.

Would the fact that Mrs. Seyfert knew that the note was an accommodation note; and that it had been practically settled by the negotiations referred to, - especially, if it was delivered to her after maturity, - in your opinion have any effect upon the disposition of the case in case a new trial could be obtained? We think these facts could be shown, and if there is any opportunity of obtaining a new trial by appeal or otherwise, Mr. Edison would be inclined to make every effort to do so. If a new trial cannot be obtained, or if in your judgment these facts would be of no ^{material} assistance to Mr. Edison upon a new trial, I presume nothing is left but to make the best settlement we can.

Mr. Edison has not property in New Jersey sufficient to

particulars of the
-17-27-1911

satisfy the judgment. The property at Menlo Park belongs to the Edison Electric Light Co; and the furniture and personal property in Mr. Edison's house belongs to his wife. The title of the house is in him, but is mortgaged to nearly its full value; so that the plaintiff to satisfy her judgment will probably have to sue upon it here which would entail considerable delay. If therefore, Mr. Edison was disposed to fight this claim as bitterly as possibly, he could delay the plaintiff considerably. Under these circumstances, would she not take less than the face of her judgment.

Mr. Edison has Mr. Seyfort's receipt for \$300, which under any circumstances should be deducted from the judgment.

Will you please let me know the exact amount of the judgment, and whether you think any settlement for a less amount could be made; and if so, how much could you get them to throw off.

Yours truly,

J. M. Coulter

April 28th, 84

E. H. Lord Esq., Treasurer.

Edison Elec. Ill. Co. Lawrence, Mass.

Dear Sir:-

Referring to our letter of the 22nd inst, in reference
your
to our account for \$2,418.07, might I ask you to very kindly reply
to same, and send me a check for the above amount.

I should not trouble you so much in regard to this
matter, were it not for the fact that we require very urgently
the use of the money.

Yours truly,

Thos. A. Edison Const. Dept.

By



April 28th, 84

E. B. Hubbard Esq., Secretary,

Edison Elec. Ill. Co. Tiffin, Ohio.

Dear Sir:-

By referring to our records, we find that the amount due us by your Company for material furnished to you for house wiring, such material having been supplied outside of our contract, is \$1,060.94.

Upon receipt of this letter, will you very kindly send us a check for this amount. We require the use of the money very urgently, and trust you will be able to oblige us.

Yours truly,

Thos. A. Edison Constn. Dept.

By 

April 28th, 84

James Harris Esq., Secretary,

Edison Elec. Ill. Co. Bellefonte, Pa.

Dear Sir:-

We beg to acknowledge with thanks receipt of your letter of the 25th inst, covering check for \$2500. Enclosed we beg to hand you receipt for same.

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 28th, 04

Messrs. Hale & Walcott
Boston, Mass.

Dear Sirs:-

Enclosed I beg to hand you my check No. 974 of to
Welch
day's date for \$250 on account of the suit.

Mr. J. C. Tomlinson, of Messrs. Ecclesine & Tomlinson,
who is my attorney, will visit you on Wednesday or Thursday of
this week.

Yours truly,



April 28th, 84

A. P. Gilbert Esq.,

Box 245 Baltimore, Md.

Dear Sir:-

I am in receipt of your letter of the 25th inst, and
in reply beg to say that I shall be glad to receive the sample of
1/2 inch wire welded after the manner you mention.

Yours truly,

A handwritten signature in cursive script, appearing to read "Z. Perry".

April 28th, 84

Henry Flench Esq. Treasurer.

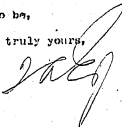
Edison Elec. Ill. Co. Piqua, Ohio.

Dear Sir:-

permit me to acknowledge with very many thanks receipt of your courteous invitation on the 26th inst, to attend the starting of the piqua station. It is with much regret that I have been obliged to forego the pleasure of visiting Piqua, but the condition of my health will not allow of my leaving New York.

Might I ask you to kindly convey these facts to the Piqua gentlemen, and believe me to be,

Very truly yours,

A handwritten signature in dark ink, appearing to be 'W. A. G.', is written over the typed text 'Very truly yours,'.

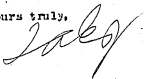
April 20th, 84

S. B. Eaton Esq. President,
Edison Electric Light Co.
New York.

Dear Sir:-

Enclosed I beg to hand you a letter addressed to me by
Mr. John R. Markle, in reference to an option for the city of De-
troit, Mich.

Yours truly,



April 28th, 94

W. H. Dwelly Esq., Treasurer.

Edison Elec. Ill. Co., Fall River, Mass.

Dear Sir:-

Referring to our letter of the 23rd inst, requesting
a settlement of your account, will you please be kind enough to
send us a check for \$1,550.11 in accordance with our letter above
referred to. We require very urgently the use of the money, and
trust you will oblige without further delay.

Yours truly

Thos. A. Edison Constn. Dept.

By 

April 28th, 84

A. L. Smith Esq.,

Appleton, Wis.

Dear Sir:-

Enclosed we beg to hand you our estimate No. 331 B, for the installation of a 1600 light Edison Elec. Light Plant at Appleton, Wis., amounting to \$33,579.17.

This estimate provides for the use of the two "K" machines, which you have on hand in Appleton, and in regard to the other material which you have, we have taken into consideration as much as it is possible for us to utilize.

When you were here you mentioned the fact that you desired us simply to bid upon the outside work. It would be impossible for us to do this, owing to the circumstances which certain events cause, as if you increase your station you will require all the electrical material we specify, and the other material is necessary to have a complete installation. Such small items as wrenches, hammers and screwdrivers can of course be cut out of this bid if you do not want them, but as you of course understand it will not do to cut from the estimate any of the supplies which have a direct relation to the successful operation of the plant.

Your Servant

April 28th, 24

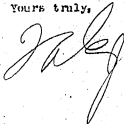
Straight Line Engine Co.

Syracuse, N. Y.

Dear Sirs:-

I am in receipt of your letter of the 26th inst, and in reply beg to say that my superintendent will go to Syracuse in a few days to see about the engines. Until his return I will be unable to deal with the subject matter of your communication, above referred to.

Yours truly,

A handwritten signature in cursive script, appearing to be 'J. W. G.', written in dark ink.

April 26th. 04.

Western Edison Light Co.

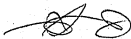
Chicago. Ill.

Dear Sirs:-

Again referring to your favor of 23rd inst, we beg
to inform you that it will cost \$140.10 ^{the} ~~to~~ wind "L" Armatures
you have, and we will allow you for the scrap copper taken off
the armatures 11 cents per pound. The armature wire is weighed
for scrap after the insulation is burned off. The above price
includes the new style of commutator and new fibre heads at the
ends of armature. If new fibre heads are not required, we will
make an allowance of \$5 on each armature.

With relation to the "Z" armatures you have, it will
cost \$125.15 for each armature. Of course you understand that
the dynamos are changed from "B" to "A" armatures by simply alter-
ing the connections of the magnets.

Yours truly,



April 28th. 04.

Western Edison Light Co.

Chicago. Ill.

Dear Sirs:-

We have your favor of 23th inst, and in future
will see that you get the information you ask for with relation to
armature and dynamo tests.

Yours truly,

A handwritten signature in dark ink, consisting of a series of loops and flourishes, positioned to the right of the typed name.

April 20th. 04.

Western Edison Light Co.

Chicago. Ill.

Dear Sirs:-

We have your favor of 25th inst, and we have always read the word "repair" to signify exactly what you state; namely:- "all work necessary to put apparatus in first class condition". Under these circumstances, we cannot see why you should complain at our putting the armature you refer to, in first class condition. If you told the man what such work was going to cost before receiving our bill, we do not think that you should make complaint against us because our bill happens to be in excess of the amount you quoted. However, inasmuch as you say you are absolute losers of \$140, we are willing to bear half of the expense, and therefore enclose you a credit note for \$70. We do this entirely irrespective of the merits of the case, which we still believe are in our favor.

We regret that the "K" armature 72 was shipped to you, and enclose you a credit for \$59.91, amount charged against you for repairing this armature. The error arose from the fact that we received no advice as to where it came from, and at this writing we are trying to find out exactly who shipped it. Our shipping

2.

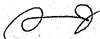
clerk was under the impression it came from you. Please render us a bill for the freight charges; and either hold the armature until we require it elsewhere, or until you have one which requires repairing, in which case you could return to us the defective armature and retain the one we have sent you in mistake.

In future we will see that you are not charged with cartage on express shipments.

With relation to your complaint as to "R" dynamo fl; - we will give instructions to have every package marked "keep dry", and then no possible error can arise in this connection.

We heartily reciprocate the hope expressed in the closing paragraph of your letter, and remain,

Yours very truly,



April 29th, 04.

F. S. Hastings Esq., Treasurer.

Edison Electric Light Co.

65 Fifth Avenue.

Dear Sir:-

We send you herewith estimate, specification of building, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Electric Central Station Plant of (1000 lamps) capacity at Far Rockaway, N. Y., the said estimate amounting to (\$22,708.71). (This estimate is based on the present value of labor and material, and we hold ourselves in readiness to close it at any time within the 60 days from the date hereof, but not after.)

The local Company in executing the contract should be careful to comply with the laws of the State of New York.

A meeting of the Board of Directors should be called, and a resolution passed directing the officers named therein, (usually the president and Treasurer) to sign the contract on behalf of the Corporation and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgments and administer oaths, and in the acknowledgement should

be incorporated an affidavit by the officers that they have signed the contract and affixed to it the corporate seal, in and by virtue of a resolution of the Board of Directors authorizing them so to do the form of acknowledgment to be such as the laws of the State of New York require. The acknowledgment should be written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company, we will return a duplicate signed.

Yours truly,

Thos. A. Edison Const. Dept.

By 

the contract

~~be incorporated an affidavit by the officers that they have signed~~

April 2

April 20th. 04.

Edison Electric Illuminating Co.

Fall River, Mass.

Dear Sirs:-

We have your favor of 20th inst, and in reply beg to state that the stack you have is plenty large enough for the purpose of running two 73 H. P. Boilers. We sent the blower and engine to Fall River solely on the advice of Messrs Babcock & Wilcox, who write us that "to the best of our belief, fine fuel cannot be used to advantage without using a blower". Messrs Babcock & Wilcox' experience is exactly the same as that of our Mr. Edison in his numerous tests with the Babcock & Wilcox boiler under varying conditions at Menlo Park.

We cannot understand why you should have such trouble at Fall River, whereas at Brockton with exactly the same kind of boiler they have no trouble in keeping up their steam, and their stack is but two feet higher than yours, and three inches smaller in diameter than your one.

We should be perfectly willing to meet you in this matter, but we consider that the authority of the Babcock & Wilcox Co is quite sufficient for us to ask you to make use of the blower and engine sent you, and then if that does not obviate your trouble

we will discuss the question of increasing the size of the stack..

We use blowers in all the plants we are putting up, and we should not at present think of putting up a station without including a blower in the estimate.

We would further point out to you that even supposing it is necessary for you to have 20 feet more stack, a far smaller amount than that which is owing to us would cover the cost of same, which at the outside would not be more than \$150. Under these circumstances, and in view of the facts above stated, we must again ask you to send us a check, as your account has been outstanding so long.

Yours truly,

Thos A Edison Const Dept.

By 

April 29th. 04.

H. M. Doubleday. Esq.

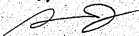
Shamokin. Pa.

Dear Sir:-

Referring to your favor of 23rd inst as to Injector at ^{Hazleton} Shamokin, we bog to say that we can see no reason why they should have trouble with it unless they failed to opened the live steam induction pipe when feeding against boiler pressure of 70 pounds or over. If the fire doors are kept open any length of time they must lose steam, or if they fire to heavily they will lose steam.

You might run down to Hazleton again and see that everything is in good shape there, and see what you can do with their Injector.

Yours truly,



Apr 29th. 04.

H. M. Doubleday. Esq.

Shamokin. Pa.

Dear Sir:-

We have your favor of 20th inst, We cannot understand at all what Mr Brock means by complaining that he has not got the pressure indicators. We have seen a letter addressed by him to Major Eaton, and also one he has addressed to Mr Hastings. He keeps stating that he has not got the instruments, whilst you say that you have.

We have wired you this morning to take the extra pressure indicator to Sunbury.

Yours truly,

Thos. A. Edison. Const. Dept.

By 

April 29th. 04.

Deutsche Edison Gesellschaft.

Berlin. Germany.

Dear Sirs:-

We have your No 4367 of 31st March.

At this writing, I do not see how it is possible for me to instruct you by means of correspondence as to how we determine the area of conductors. I am inclined to think it would be necessary for you to send a man here, or for me to send a man to Berlin. I expect however that Mr. Batchelor will be here in the course of a week or so, and I will consult with him and write you further in relation to the matter.

Yours truly,



April 26th. 84.

Prof H. A. Rowland.

John Hopkins University. Baltimore. Md.

Dear Sir:-

I have your favor of 23th inst, and in reply I beg to state that we can wind you a machine that will run 200 volts and stand a current of 10 amperes. The volts can be lowered by resistance box in the field.

Will this answer your purpose?.

Yours truly,

A handwritten signature in dark ink, appearing to be 'J. A. Rowland', written in a cursive style.

April 29th. 04.

Gustav Soldan, Esq. Supt.

New York.

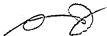
Dear Sir:-

We require the following information with relation to any machines that you may in the future ship to the Western Edison Light Co:-

First, speed of armature. Second, field resistance. Third, external resistance of field. Fourth, Electro motive force. Fifth, approximate insulation resistance of armature.

If there is any further data given on the test tickets ordinarily used, we require same in addition to above. When only armatures are shipped, we require such of the above information as refers to armatures.

Yours truly,



April 29th, 1884

E. C. Sims Esq.,

Niagara Falls, N. Y.

Dear Sir:-

Mr Hastings, Secretary of the Edison Electric Light Company, has handed to us a letter of yours under date the 20th inst, and has called our attention to ^a ~~the~~ paragraph in which you state that the item of \$749.00 for electrical, meter, wiring, and engineering experts in our estimate for the installation of the Niagara Falls Plant seems to be excessive, and has asked us to explain it to you. We therefore beg to inform you that this amount is to provide for the salary and expenses of an electrical ^{meter} ~~meter~~, ^{expert} ~~expert~~, ^a wiring expert, and an engineering expert.

As understood from you that this plant was to run night and day from the date of the commencement of its operation, we therefore in the item in question provided for the payment of salaries to two permanent engineers, whom we should instruct in such a manner as to enable them to take charge of the plant after our men left there; thus you will see we have to provide for the salaries, travelling expenses, and board of three men, and the salaries alone of two men. With this explanation, we think you will agree with us that the amount is not excessive.

Yours truly
E. C. Sims

April 20th. 94.

Gustav Solfan. Esq. Supt.

New York.

Dear Sir:-

The Western Edison Light Co complain that Dynamo "R" 41 shipped to Kaunana was not marked "keep dry", and consequently the boxes were shipped on flat cars instead of in closed cars, resulting in damage to the machine, and an expense to the Western Edison Light Co of having to keep a man at the above place for 3 days while the fields and armature were being dried.

Please see in future that every package sent to this Co is marked "keep dry", and take all precautions necessary to have same shipped in closed cars.

They also complain that armature "K" No 72 was shipped to them in error, as it never came from Chicago. We cannot understand why so many errors occur in connection with material sent to this company, and must urge upon you to have this work done with more care in the future.

Yours truly,



April 29th, 04.

M. W. Pratt, Esq.

Treasurer, Babcock & Wilcox Co. New York.

Dear Sir:-

The Edison Electric Illuminating Co of Fall River inform us that your expert told them that ~~your~~ the stack we put up there ~~was~~ not high enough.

We notice in the list of stacks which you sent us on 5th April you state that 150 H. P. Boilers require stacks 36" in diameter and 60' high. We have at Fall River a stack 14" in diameter and 50' high from the ground. Should not this give all the draft that is necessary?

We may mention that we propose putting in a blower, acting on your suggestion that better results would be attained from small coal if we adopted this course. Our Fall River friends object to a blower, and want a higher stack. We think that the stack is high enough, and that the blower would remedy all defects, but we wish to have your opinion on the subject, as we desire to quote you in writing them.

Please let us hear from you per bearer, and oblige,

Yours very truly,



April 30th. 04.

James Harris. Esq. Secretary.

Bellefonte. Pa.

Dear Sir:-

We have your favor of 25th inst enclosing check for \$2500, for which we beg to hand you receipt herewith.

The engine has been shipped from Providence; and we will ship the copper immediately we get a reply from our Mr. Perry in relation to which way your Company proposes itself to extend its mains 600 feet. We have telegraphed and written him to-day in relation to the matter, and have requested him to confer with you on the subject.

Yours truly,

Thos A Edison Const Dept.

By



April 30th, 1904.

A. Stuart Esq., Secretary

Ohio Edison Elec. Installation Co.

Cincinnati, Ohio.

Dear Sir:-

We are in receipt of your letter of the 28th inst, and in reply beg to say that we will send you an estimate for Cocington on Monday or Tuesday next. We understand exactly what you want, and will comply with your wishes.

Yours truly,

Thos. A. Edison Constn. Dept.

By



MOORE & SAMPSON
301 N. W. 4th St. ST. LOUIS, MO.

April 30th, 84

J. F. Bunn Esq., J. P. Pres't.

Edison Elec. Ill. Co. Tiffin, Ohio.

Dear Sir:-

In further reference to the Tiffin extension, we send you under same cover chart showing the proposed course of the additional conductors, statement giving the quantity and sizes of wire required for the work, statement showing the proper sizes of wires to run between different points as located on the chart, and our bid for the supply of the necessary wire and electrical appliances, amounting to \$1,265.09.

Owing to our having had to install an additional feeder, these appliances will be necessary in your station in addition to what you already have there.

We would call your attention to the chart, and explain that we have found it necessary to move feeder No. 1 from its present position in the center of block No. 5 to the center of block No. 7. Feeder No. 3 running from the Central Station to the point marked 3 on the alley between Perry and Market Sts., just across the river is the feeder above referred to.

The mains running from the Central Station to points marked X and 2 we have found it necessary to augment by the installation of wires, the sizes of which are given in our scheme an

NEW YORK

NEW YORK

THOMAS A. EDISON
CONSTRUCTION DEPT.

enclosed.

You understand of course that our bid is simply for supplying you with the material; and prices as quoted are "F. O. B.", New York.

We understand from your letter that you propose doing all work in connection with making this installation, yourselves.

Trusting this will meet your requirements, we are,

Yours truly,

Thos. A. Edison Constn. Dept.

By



April 30th. 04.

John. T. Perry. Esq.

Bellefonte. Pa.

Dear Sir:-

We wired you this morning as follows:- "Look at map showing proposed extension and wire immediately whether Company propose to extend three "D" 600 feet east or three "C" 600 feet west. Consult Harris. Answer quickly."

In case you do not understand the meaning of our telegram, we send you by post blue print of Bellefonte showing the proposed extension there. Mr. Harris wrote us that his Company wish to extend the mains 600 feet beyond where we are going to run, but we are not sure whether he proposes to extend three "D" 600 feet or three "C" 600 feet. Hence we wired you for information.

Will you please look over the map, and check your reply, and if you find you have made any error in your telegram, please notify us immediately, as it makes a difference in our order for copper. You had better see Mr. Harris about the matter.

Yours truly,

Thos A Edison Const Dept.

By 

May 1st. 1884.

Everett Prazer, Esq.

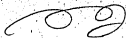
123 Front Street, City.

Dear Sir:-

I have a quantity of specimen work done by the autographic process, this being the system of telegraphy which Mr. Edison has spoken to you about.

The next time you are up this way, if you will give me a call, I shall be glad to show them to you.

Very truly yours,

A handwritten signature consisting of a series of loops and flourishes, likely belonging to the sender of the letter.

May 1st, 1884.

W. E. Gilmore, Esq.

City.

Dear Sir:-

After Thursday, the 15th. inst., we will no longer be able to give you employment in the Engineering Department, but we wish to transfer your services and constitute you stenographer in chief.

During the coming week we would suggest that you seize every opportunity to practice up your shorthand.

Yours truly,

T. A. Edison Constr. Dept.

By

May 16th. 1884.

John B. Verity, Esq.

care B. Verity & sons,

King Street, Covent Garden,

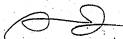
London, W. C. England.

My dear Verity:-

I have your letter of the 16th. April, and am very glad you have got the license from the Edison & Swan United Electric Light Co. on the terms stated, and both Mr. Edison and myself think that the royalty which you have to pay is a very favorable one to yourself. I have got the plans out which we propose sending you, but will hold them until I hear further from you on the subject.

I am very busy just now, that is I should say so if I were writing a regular business letter, but inasmuch as I am not I will tell the bare truth and say that I am in a great hurry to get away so as to attend a walking match, and therefore you will excuse this short letter and oblige,

yours very truly,



May 1st, 1884

To whom it may concern:-

This is to certify that Mr. John M. Stewart has been employed in this department as a draughtsman since the ^{1st} of ~~the~~ ^{Jan} last. His work has always been performed in a thorough and efficient manner, and we take great pleasure in recommending him to any one requiring his services.

A large, stylized handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the left.

May 1st. 4

Gustav Soldan, Esq. Supt.

104 Coerck Street, City.

Dear Sir:-

Will you please let me know by Ernest to-morrow morning if Mr. Adams pulley gripper is still on the machine that you originally tried your experiment with, and also when it would be convenient for Mr. Hutchinson and several other gentlemen to see it in operation.

Yours truly,



Secty. & Treas.

May 1st. 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

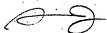
Referring to your favor of the 28th. ulto., we are in telegraphic communication with our Mr. Leonard and immediately we can get some data we will wire you fully as to the proposed lighting of the streets at Middletown.

Hoping we will be able to get the information to you in time, we remain,

Yours truly,

T. A. Edison Conatn. Dept.

By



May 1st. 1884.

W. S. Andrews, Esq.
Piqua, Ohio.

Dear Sir:-

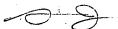
Referring to your several letters in relation to the use of the center wire in connection with the fourth wire to operate lamps. Mr. Edison thinks the suggestion a very good one.

When you are in New York it would be well to discuss the matter with him.

Yours truly,

T. A. Edison Constn. Dept.

BY



May 1st. 1894.

H. M. Doubleday, Esq.

Shamokin, Penna.

Dear Sir:-

We have your favor of the 28th. ulto., and would point out to you that the difference in lamp breakage between the blue and red side of the Shamokin system is a very bad give-away on the engineer. We trust that you will point this out to the local people, as the results you have attained by the use of the automatic regulator proves most decidedly that the gentleman whose duty it is to attend to the regulation is chiefly distinguished by his non-attention to his business. The use of the automatic regulator in a central station system is very dangerous. Some time or other something ~~ix~~ will go wrong with that regulator, and in an instant the Shamokin Company will lose all the lamps. This is the main reason that we have been objecting to the use of these regulators, more especially as it is the engineer's duty to attend to the proper manipulation of these resistance boxes.

Yours truly,
T. A. Edison Constn. Dept.
By



May 1st. 1914.

James W. Pryor, Esq.

10 Cortlandt Street, City.

Dear Sir:-

Referring to your favor of the 29th. ult., addressed to Mr. Edison, I beg to enclose herewith a check for \$400., being due amount of rent in advance on your house in Gramercy Park, so that for once your desire to be paid on the first of the month is gratified.

I may mention to you that it is usual when people have accounts against us for them to send for the money when it is due, and if you would pursue this course on the first of each month you would save yourself any inconvenience from not receiving the money and us the trouble of having to send it to you.

It is Mr. Edison's intention to occupy the house himself for the balance of the lease.

Thanking you for the information you give as to the accumulation of ashes in the cellar, I remain,

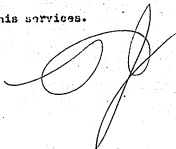
Yours very truly,



May 1st, 1894

To whom it may concern:-

This is to certify that Mr. Carl Mensch has been employed in this department as a draughtsman since the 19th Nov. 1893. His work has always been performed in a thorough and efficient manner, and we take great pleasure in recommending him to any one requiring his services.

A large, stylized handwritten signature in dark ink, consisting of several loops and a long tail, positioned to the right of the main text block.

May 1st, 1884.

J. F. Mc.Clain, Esq.

City.

Dear Sir:-

We regret to state that after Thursday, the 8th. inst., we will no longer be able to give you employment, as the changes which are taking place in our business necessitates a ~~xxxxxxx~~ general reduction of our staff.

We shall be pleased, if you desire it, to give you a letter certifying to your efficiency as a stenographer.

Yours truly,

T. A. Edison Constn. Dept.

By

May 1st. 1884.

J. Hibler, Esq.

Dear Sir:-

We regret to state that after the 10th. of the present month we will be unable to give you further employment.

We shall be glad to have you come to New York as soon as possible, and we will explain to you our reasons for desiring to make the change.

Yours truly,

T. A. Edison Constn. Dept.

By

May 1st, 1884.

Thomas F. Henderson, Esq.

City.

Dear Sir:-

We regret to state that after Thursday, the 8th. inst., we will no longer be able to give you employment, as the changes which are taking place in our business necessitates a general reduction of our staff.

We shall be pleased, if you desire it, to give you a letter certifying to your efficiency as a stenographer.

Yours truly,

T. A. Edison Constn. Dept.

By

May 12th. 1894.

W. F. Tillotson, Esq.

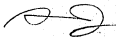
0 East 17th. Street, City.

Dear Sir:-

Referring to your favor of the 29th. ulto., I regret to inform you that Mr. Edison is absent from the City just now. He will in all probability be back in the course of a few days, and I have no doubt he will be delighted to see you early next week. I may mention, however, that Mr. Edison's laboratory at Menlo Park is closed just now.

If, in the meantime, I can be of any assistance to you it will afford me very great pleasure to show you anything you may desire to see in connection with Mr. Edison's system of electric lighting in New York City.

Very truly yours,



NEW YORK

May 2nd. 1914.

Western Edison Light Co.

Chicago. Ill.

Dear Sirs:-

Again referring to your favor of 26th ultimo, we would point out to you that we cannot possibly tell you the external resistance of your circuits in giving you a test of our machines, as you have of course got to figure this from the number of lamps you use, the style of them, and the resistance of your wiring.

We should also like to know what you mean by "approximate insulation resistance of armature".

yours truly,



THOMAS A. BARNETT
NO. 65 BETH AVE.
MAY 2nd 1904

Arizona
MAY 2nd 1904

My dear vority:-

I send you by this mail, under separate cover, blue prints showing connections of our dynamos, and another blue print giving the sizes.

I also enclose herewith a statement in relation to dynamos. This various information will doubtless be useful to you!

Yours very truly,



John. B. Vority. Esq.

London. England.

May 2nd. 84.

Arthur. S. Boyes. Esq.

Tiffin, Ohio.

Dear Sir:-

We have your favor of 29th ultimo, and are glad to learn that so small a number as only 47 lamps was broken in the month of April.

Can you possibly give us a statement of the exact running expenses for April, as we should very much like to know whether the Tiffin Station is paying or not. If you can make up this statement for us, we shall be much obliged.

We should also like a statement of the average life of the lamps for April.

Yours truly,

Thos A Edison Const Dept.

BY



May 2nd. 84.

The publisher of "Science".

4 Bond St. New York.

Dear Sir:-

I beg to enclose you herewith check for \$5.00, in
payment of my subscription.

Please return voucher receipted.

Yours truly,

A handwritten signature in cursive script, appearing to be the initials 'J. D.' or similar, written in dark ink.

May 2nd, 1934

Messrs. Bergmann & Co.,

292 Ave. B., City.

Dear Sirs:-

We are in receipt this morning of your order No. 441, and will send you at once, one graduated 8 litre bottle, two hydrometers, one sealing tool and 1000 seals.

In relation to the balance for weighing meter plates, and the information you ask for in regard to same, we beg to say that we use two sizes, No. 7, and No. 8. No. 7 is for a charge up to 100 grammes in each pan, in fine French polished glass case, front sliding frame counterpoised, all bearings, agate planes, with new and improved arrangements for arrest of pans and beam, sensible to 1/20 milligramme with its full charge. Provided with apparatus for specific gravity. Rider and weighing tubes. Beam divided in 1/20 part of milligrammes. Pans 2 3/8 inches in diameter. Cost \$100.88

No. 8 is of the same make, for 200 grammes in each pan, sensible to 1/20 milligramme with its full charge. Provided with arrest for pans, and apparatus for specific gravity. Rider and weighing tubes. Beam divided into 1/10 part of milligrammes. Pans

3 inches in diameter. Cost \$144.09.

ALBION V. EDISON

NEW YORK

100

In an installation where 100 light meters are used, it is necessary to place in service a No. 8 balance, as the maximum capacity of a No. 7 is insufficient to accommodate the plates from a 100 light meter. These balances are made by Messrs. Becker & Sons, and they are of special design, improved for adaption to our business by experiments made by Mr. Edison. The prices we quote are such as we charge local companies, but from them we will give you a discount of 5 per-cent.

Awaiting your reply, we are

Yours truly,

Thos. A. Edison Constn. Dept.

BY

NEW YORK

188

NO. 22 BILLY VAENGE
General Edison Construction Dept.

THOMAS A. EDISON

188

New York, N. Y. 1887

Edison Lamp Co.

East Newark, N. J.

Dear Sirs:-

Our German friends write us stating that they received 232 lamps with broken brass caps, and 113 lamps with bent and unservicable carbon filaments.

You have expressed your willingness to make these 305 lamps, ^{good} and we shall therefore be glad if in your next ~~order~~ ^{you} shipment to them include this number extra, free of charge, in accordance with our understanding in relation to this matter.

Yours truly,



887

MARY WEE

SCOTT A. BARNETT
MURRAY BIRTH CO. OH

May 2nd, 1894

To whom it may concern:-

This is to certify that Mr. James Grimshaw has been employed in this department as a canvasser since the 1st March, 1894. We have found him to be active and energetic, and we take pleasure in recommending him to any one requiring his services.

May 5th, 1894

To whom it may concern:-

This is to certify that John H. Boos has been employed in the office of the Edison Machine Works for the past three years. He is, to the best of our belief, honest and trustworthy, and we have found him to be bright and intelligent.

May 5th, 04

Messrs. Bergmann & Co.

292 Ave. B. City.

Dear Sirs:-

The enclosed letter from Mr. Andrews addressed to you was sent to us for perusal.

In a letter addressed to ourselves by Mr. Andrews, he complains of the fact that he has invariably to suffer inconvenience and delay for the lack of material ordered from you, from your regular stock, and he states that when even a sample order is sent to you it is shipped out in small portions. Will you please hurry forward the material asked for, and oblige.

Yours truly,

Thos. A. Edison Constr. Dept.

By,

May 9th. 1884.

H. B. Gockmann, Esq.

Newburgh, N.Y.

Dear Sir:-

Mr Insull informs me that he learned, when at Newburgh yesterday, that your Directors are very much inclined to fix the price of light at one cent per hour per ten candle lamp.

I am strongly of the opinion, from my experience in other cities, that you can just as easily get one and a quarter cents, and I write to urge you to sell your light at the latter figure. It is very easy for you to reduce your price later on if you find that the people in Newburgh will not pay so much, but if you start at one cent you will find it very difficult indeed to raise your price should you come to the conclusion to sell at a higher figure.

At Brockton, Mass., when our station started there, the Directors of the local Company decided to charge at the rate of one cent, they now say that they very much regret that they did not commence charging at one and a quarter cents, as from the manner in which the light has been taken hold of in Brockton they are convinced that if they had started at a higher figure they would have been able to get just as many lights taken, whereas now

they are afraid to increase their price as it might possibly

THOMAS W. EDISON

May 6th. 1904.

3

prejudice their business. At Brockton the light was taken hold of much slower than it is being adopted at Newburgh, and the dividend earning capacity of the plant seemed to me at the time to be much less than I think it is at Newburgh.

I write this letter to you not because I think it impossible to make money at one cent per hour, but because I think that your Stockholders should have the extra dividend which the extra quarter of a cent will bring them and which I feel assured your consumers will pay, unless customers at Newburgh are entirely ~~different~~ ^{different} from what they are in other cities.

You should not be over anxious about getting the whole capacity of your plant taken up right away. If you wait a little until your consumers have learned to appreciate what they have got, you will, we believe, find no difficulty in disposing of all the light you can sell on practically your own terms. You are selling a light which is vastly superior to any which is being ~~now~~ supplied by your competitors the gas company, and in deciding what price you will charge we trust you will bear this in mind. In thus advising you we not only draw from our experience in New York City but also in every place where we have got a station started.

Yours truly,

W. E. ADEK

183

NO. 22, BROADWAY
LONDON, W. 1

Daly

May 6th.

4

Gustav Soldan, Esq. Supt.

104 Goorek Street, City.

Dear Sir:-

It is now some weeks since I informed you that we desired to shut down the shop just as quickly as you finished your present work. I must ask you to hurry forward your work as quickly as possible, as it is our intention to shut the Machine Works down absolutely.

I sent down an order for some 500 brushes. Those I want put through quickly on contract, and even if they are not finished by the time the balance of your work is, this should not interfere with the closing of the shop as I presume only one or two men will be required to finish them.

There are several experiments which you have in hand that should be pushed through as quickly as possible, as immediately the shop is shut down we want to have the boiler fixed, and consequently will have trouble in getting power. I refer more especially to the mica boxes, which should be put through in the shop as early as possible so as to enable us to get a test on them before starting work on the boiler.

Yours truly,

NEA AGENT

NO. 12 BILAL YAKHDE
CHONGE V. BILAL

Secty. & Treas.

May 6th. 1884.

E. B. Hubbard, Esq. Secty.

Tiffin, Ohio.

Dear Sir:-

Mr. Stuart, of Cincinnati, has been here for the past few days, and in the course of conversation he submitted to us a proposition which came from you to him, requesting our opinion on the same. It was in reference to the light you are furnishing some hotel in your City, in which, as we understand it, you propose putting about 110 lights for a stipulated sum per year, we think the amount was \$375.

Mr. Stuart requested us to write you our views on the subject, and first of all we believe it a mistake on your part altogether, in connection with the Edison light, to sell it to anybody in lump for so much per year, as it induces a reckless burning of the light, it being not at all to their interest to use economy, which you will readily see runs up the expense on lamps, but the main objection which occurs to us, and which we are very deeply interested in, is that you are inclined to let anybody have the light, who is willing to put it in, at most any price, and for fear of the gas company. We are of the opinion that it would have been a good plan to let the gas company have it

HEM AOBK

102

NO 62 BULL VAENGE
INCORP V BOSON

at this price, for the hotel people would have repented of it much sooner than you.

Our experience in other towns warrant us in saying that you should not be too anxious to get your station all taken within the first three, or four, or five months. It is not expected that is to be done, so far from it we would prefer to hear that you were refusing to take lights at reduced prices, and even at your own price, provided it did not have enough burning hours, and by the time the Fall lighting commences you would wish you had selected your customers out of those who have a long average of burning. From what we have heard of Tiffin there is nothing more certain than a fine success with your plant and a good dividend if you will be firm in your terms of price.

Very truly yours,

T. A. Edison Constn. Dept.

BY

Jak

NEW YORK

188

May 6th, 1884.

Henry Flesch, Esq. Treas.

Piqua, Ohio.

Dear Sir:-

Mr. Stuart, Secretary of the Ohio Installation Company, has been here for some day past and in talking about your business at Piqua he mentioned that in all probability you would fix the charge for light at one cent per hour per ten candle lamp. I think that if your Company decides to do this they will be selling light entirely too cheap, a fact which they will discover after they have been running their station ~~within~~ but a very few months, and a time when it will be almost impossible to raise the price.

I would strongly urge upon you the necessity of fixing your price at one and a quarter cents, as I feel assured that you will be able to get this price, unless Piqua is entirely different to any other City where we have started a plant.

We have talked with Mr. Stuart at length upon this subject and explained to him how easy it has been in other places to get one and a quarter cents, and that by charging less you will simply be presenting the public with the extra quarter of a cent which they will very willingly pay for after having once

NO 82 ELLI H VANZHE
THOMAS V. EDISON

EDISON ELECTRIC CO. CH.

ARMY WEN

tested the light.

I do not write this because I am afraid you will not make money if you charge a cent, but simply because I am convinced that, unless the conditions at Piqua are abnormal, you can with perfect ease make the extra dividend which the quarter of a cent will bring you, and which on the total lighting will make a very great difference to your stockholders.

You should not be overanxious about getting the whole capacity of your plant taken up right away. If you wait a little until your consumers have learned to appreciate what they have got you will, we believe, find no difficulty in disposing of all the light you can sell on practically your own terms. You are selling a light which is vastly superior to any which is being supplied by your competitors, the gas company, and in deciding what price you will charge we trust that you will bear this in mind. In thus advising you we do not only draw from our experience in New York City but also in every place where we have got a station started.

Yours very truly,

T. A. Edison Constn. Dept.

By *TAE*

May 6th. 84.

Henry. A. Clark. Esq.

Erie. Pa.

Dear Sir:-

We send you herewith estimate, specification of building, specification of street installation, chart of district, plan of building, and contract for the installation of an Edison Electric Light Central Station Plant of 800 lamps capacity, at Cumberland, Md, the said estimate amounting to \$17,774.38.

The Local Company in executing the contract should be careful to comply with the laws of the state of Maryland.

A meeting of the Board of Directors should be called, and a resolution passed, directing the officers named therein, (usually the President and Treasurer) to sign the contract on behalf of the corporation, and affix thereto the corporate seal. Care should also be taken to have the officers signing the contract acknowledge it before some officer authorized by law to take acknowledgements and administer oaths; and in the acknowledgement should be incorporated an affidavit by the officers that they have signed the contract, and affixed to it the corporate seal, in and by virtue of a resolution of the Board of Directors authorizing them so to do: the form of acknowledgement to be such as the laws of the state of Maryland require. The acknowledgement should be

2.

written on the blank pages annexed to the contract.

We do not regard the contract as binding upon us until it is received here properly executed, together with a certified check for the amount required to be paid upon its execution.

On receipt of the contract executed by the Company, we will return a duplicate signed.

Yours truly,

Thos A Edison Const Dept.

By 

May 6th. 1884.

Prof. S. S. Laws, Pres.

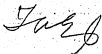
University of Missouri,

Columbia, Boone Co. Mo.

My Dear Sir:-

Can you place the exact date when I started to work for you, and do you remember whether I informed you at that time that I had just arrived from Rochester? What I want to get at is a certain date that I was in Rochester some time prior to going into your employ and so far I have not been very successful in placing the exact ~~date~~ time.

Very truly yours,



MEM AGWK

NO 02 1111 FACERK
LHONVS V EDEON

NEW YORK

May 9th. 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 1st. inst., and enclose herewith receipt for \$5,000. on account of the second payment of fifty per cent on the construction of the Piqua plant. We must apologize for not sending this to you on Saturday last, but in the pressure of business overlooked the matter.

Very truly yours,

T. A. Edison Constn. Dept.

By 

May 6th. 1884.

C. E. Spoirs, Esq.

care D. Van Nostrand,
23 Murray Street, City.

Dear Sir:-

I am much obliged to you for yours of the 3rd. inst.,
together with the MSS. index to the French set of patents.

It is peculiar that only this morning we got an index
from Washington, which the United States authorities prepared with
relation to the same set of volumes.

Very truly yours,



P. S. Have you got any more of those works which I asked
you to buy for me personally?

NEW YORK

188

ROBERT A. RAMOHT
May 6th 1884 20 04

381.....XROY WEM

"Secretary",

Edison & Swan United Electric Light Co.

57 Holborn Viaduct,

London, E. C. England.

Dear Sir:-

CRITERION ENGINES. I have your favor of the 24th. ulto., and am in communication with the Armington & Sims Co. with relation to the trouble with the engines at the Criterion Theatre.

Very truly yours,

Zabr
L

May 0th. 1884.

Messrs. Borgmann & Co.

city.

Dear Sirs:-

We enclose herewith letter from Mr. Andrews with relation to a new arrangement of switch on lightning arrester. Will you please look into same and let us have your views.

Yours truly,

T. A. Edison Constr. Dept.

By



Enclosure, B¹

NEW YORK

152

NO. 22 BILLY YANKEE
THOMAS A. EDISON

May 6th. 1884.

F. V. Brisson, Esq.

82 & 84 Nassau Street, City.

Dear Sir:-

I have your favor of the 2nd. inst., and in reply beg to state that my time is so fully occupied that I would much prefer that you send me a copy of Dr. Dieckmann patent, and I can then very readily judge as to whether his invention would be of any use to me.

Very truly yours,

Fals
L

NEW YORK

1884

NO 82 BROADWAY
THOMAS V. EDISON

NEW YORK

May 6th. 1884.

W. S. Andrews, Esq.

Piqua, Ohio.

Dear Sir:-

I noticed when at Newburgh that Mr. Conant is keeping an exact record of the amperes and pressure every half hour in the station there. Cannot you have the same record kept for a few days in every station where you have men? I shall also be glad if you can arrange to give me the exact life of lamps at every station where we have our new pressure indicators up.

Yours very truly,

T. A. Edison Constn. Dept.

By



May 6th. 1934.

W. S. Andrews, Esq.

Piqua, Ohio.

Dear Sir:-

We have your favor of the 1st. inst., and in reply beg to state that the experiment tried by Mr. Doubleday proves absolutely that the main trouble at Shamokin is confined to the incapacity of the engineer they have, rather than to the incompleteness of our installation there. In my opinion it would be very dangerous to depend upon automatic regulators in central stations, as should same give out the probability would be that the whole of the lamps on the system would be broken before the engineer would have time to switch his automatic out and use his hand regulator.

With relation to your suggestion to work the relay of an automatic regulator by the pointer of one of our indicators, we would state that we have tried the experiment, but it is not strong enough for the work.

Yours truly,

T. A. Edison Constn. Dept.

By



MEM AOHX

192

May 6th, 1894.

Colonel George E. Gouraud,
34 Walbrook Street,
London, E. C. England.

My Dear Colonel:-

I have your letter of the 29th. ulto.

I wired in relation to the Indian and Colonial matter as I heard nothing from anybody about it for some time. I did not cable London in the manner which you speak of in your letter, but presume Drexel, Morgan & Co. must have done so. I think the cable must have been sent at the time when I was absent in Florida.

Very truly yours,



NEW YORK

NO 02 1894-VAENNE
18942 7 1894

May 6th. 1884.

E. Frazar, Esq.

123 Front Street, City.

Dear Sir:-

I shall be very much obliged to you if you would frame a letter which you think would be suitable for Mr. Edison to write with relation to the application for a concession for the electric light and telephone in Corea. You are acquainted with Eastern affairs and the mode of conducting same, and I think that your knowledge of these matters would enable you to put the application in much better shape than I could possibly do it myself.

Apologizing for causing you so much trouble, I remain,

Very truly yours,



May 6th, 1884.

Fred Catlin, Esq.

195 Broadway, City.

Dear Sir:-

your favor of the 29th. ulto. came to hand during my absence from the city, hence the delay in replying to same.

What you propose with relation to the transmission of power can undoubtedly be done, and if you will let me have further particulars and will call and see me in relation to the matter I have no doubt I can arrange to give you a commission should you get the job for me.

Very truly yours,



NEW YORK

188

150 02 BILLY WARREN
LINOVA V EDISON

May 6th. 1894.

Thomas P. Conant, Esq.

Newburgh, N.Y.

Dear Sir:-

We have your favor of the 4th. inst., and in reply beg to state that it is not our intention to adhere strictly to the terms of our contract with relation to the time of keeping our exports at the Newburgh station. We do not, however, desire to keep you or the other men longer than necessary, and we should like to know if you do not think it feasible for you all to take your departure from there by Saturday next.

Of course we want that map of the electrical work before you leave.

Yours truly,

T. A. Edison Constr. Dept.

By



NEW YORK

1894

NO 22 BELL VAERNE
THOMAS V. EDISON

May 6th. 1894.

Charles F. Parker, Esq.

Stevens Institute,
Hoboken, N.J.

Dear Sir:-

Referring to your favor of the 3rd. inst. Mr. Edison desires me to inform you that a 25 H.P. electric locomotive would in all probability cost about \$2000. and would require about eight pounds of coal per H.P. on the track. If buckwheat or dust coal were used it would cost about \$2.45 per ton. A 200 H.P. electric locomotive would cost from \$8,000. to \$10,000.

Yours truly,



MEM ACCK

188

NO 62 BLEN VARIAG
LUNOVA V EDROCK

THOMAS A. EDISON
MAY 29 1884

NEW YORK

F. Montan, Esq.

care Gust. Lundberg,

38 Kilby Street,

Boston, Mass.

Dear Sir:-

Referring to your favor of the 3rd. inst., Mr. Edison
desires me to inform you that he will be glad to see you any day
at this office between eleven and four.

Very truly yours,



May 6th. 1884.

D. S. Hammond, Esq.

Hotel Bristol,

5th. Avenue & 42nd. Street, City.

Dear Sir:-

Mr Edison was very sorry that he missed seeing you today. He will not be here to-morrow (Tuesday), but if you will write down stating what time you can call on Wednesday I will arrange for him to be here. I think an appointment about mid-day would in all probability suit.

Very truly yours,



NEW YORK

188

NO. 62 BILLY VASQUE
INCLOS V. EBBON

May 7th, 1884

Messrs. Dolano & Co.,

P. O. Box 3329, New York.

Dear Sirs:-

Replying to your letter of the 6th inst, I beg to say that the weight of a 25 light machine is 1073 pounds net, and the capital stock of the Edison Electric Light Company, is \$1,080,000-.

Yours truly,

May 7th, 1884

N. S. Keith Esq., Chairman,

American Institute Electrical Engineers.

P. O. Box 3332, New York.

Dear Sir:-

I am in receipt of your letter of the 6th inst, and in reply beg to say that I shall be pleased to accept the nomination of your Committee as one of the Vice Presidents of the American Institute of Electrical Engineers.

Yours truly,

May 6th, 1894.

Geo. D. Bancroft, Esq.,

Worcester Corset Company,

Worcester, Mass.

Dear Sir:-

I have lost the data about the printing telegraph
at Holyoke, please send on data here about number of printers
and how many in the circuit and the length of wire.

Yours truly

J. A. E.

May 8th. 1884.

Arthur J. Kimball, Esq.

John Hopkins University,
Baltimore, Md.

Dear Sir:-

Your favor of the 7th. inst., addressed to Mr. Edison,
has been referred to us.

The machine referred to by you was shipped from our
Works yesterday, the 8th. inst.,

We have ordered a resistance box to be shipped to you,
which you will use as suggested in Mr. Edison's letters to Prof.
Rowland. The machine sent is of course a shunt machine.

Yours truly,

Secty. & Treas.

Rev. S. J. ~~Alford~~ Crescent City May 9th, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

We have received your various letters in relation to the Santiago station and the business in general in Chili.

Major Eaton has written you, I believe, that he thinks it would be well for you to go ahead under our contract, at the same time doing all you can for the Santiago people. I do not doubt but what the Santiago matter will settle itself eventually. Your memorandum asking for the shipment of various pamphlets, electrotypes and blue prints will be sent forward to you by fast freight, together with 25 canvass books asked for in your letter of the 21st. March.

The cable key book, together with memorandum regarding Chilean cable key, came duly to hand.

We have got no new contracts of late, in fact our business at the moment is rather dull. This is of course but temporary, and we do not doubt but what as the Summer comes along we shall have plenty of work to do.

The central station down town is running splendidly. The collections keep up above \$9,000., and only the day before yesterday we sold \$600. worth of light, being the largest amount of light sold in that district, although the maximum number of lights on at any one time was only 3,500. The reason for this is that we have been having ~~water~~ exceptionally bad weather for

May, and consequently had a great deal of day lighting. A peculiar circumstance in connection with the running of our plant is that as a rule we seldom have now more than 3,000 lights on as a maximum, and that our average lamp hours has gone up from five to six hours. This is owing mainly to the character of the lighting that Mr. Chimmoel is now obtaining in the district, as he now has an opportunity of choosing his customers, and in no case does he take a new consumer unless the average lighting is very high indeed. Within a few days we expect to start on the two new dynamos which have been placed in the basement of the second building at Pearl Street by our Construction Department under contract with the Illuminating Company. This will give an increase capacity to the station of about 2,400 lights, and judging from the results obtained during the first week in May and the month of April, it would seem to indicate that our Summer lighting in the first district is going to be equal in every respect to the Winter lighting.

We are figuring on an uptown plant between 23rd. and 59th streets and 8th. and Madison Avenues, and there is a maximum of 115,000 lights burning at any one time. It is our intention to divide this into two districts, the upper one starting at 42nd. Street and the lower one ending there. In all probability the station for each district will amount to about \$500,000., or a total of \$1,000,000.. At this writing I do not know whether one or both of these plants will be put in this Summer.

Our small town plants are running elegantly, all bugs have been eliminated. The new pressure indicator is a perfect success. A large party of us went up to Newburgh to view things, and the station there seems absolutely perfect, with first class pressure indicators, feeder regulators we get a result of upwards of 1,000 average with our lamps, and inasmuch as this plant has only been running a month this result is something wonderful, as it is of course expected that the bad lamps will be shaken out during the first month of running.

Your orders shall be attended to promptly and shipments made by us as quickly as possible.

Your proposition to mail us drafts on London will be satisfactory for the present if you find you are unable to arrange for cable remittances.

We cannot understand why your contracts have not arrived, as they were sent from here on February 9th.

I will see if I can get from the German Company a certified copy of the decision in the suit with the Swan Company.

Very truly yours,

Jag
L

May 9th. 1884.

Messrs. Borgmann & Co.

202 Avenue B, City.

Dear Sirs:-

Referring to yours of the 6th. inst., we do not wish you to make the switch suggested by Mr. Andrews for the lightning arrester at present, but would request you to bear it in mind when you are putting through another lot of lightning arresters.

Yours truly,

T. A. Edison Constn. Dept.

By



May 9th, 1884.

Straight Line Engine Co.

Syracuse, N.Y.

Dear Sir:-

We have your favor of the 6th. inst.

As there seems to be some doubt as to when our Superintendent will be able to visit Syracuse, we would request you to ship the engine to the Edison Machine Works, 104 Goerck Street, New York, at your early convenience.

Yours truly,



Secty. & Treas.

May 9th, 1884.

C. E. Chincock, Esq. Supt.

237 Pearl Street, City.

Dear Sir:-

We have your favor of the 6th. inst., and have instructed our engineer, Mr. Fing, to inspect your structure, as requested. We will send you his report in due course.

Yours truly,

T. A. Edison Constn. Dept.

By



Per S. S. Alaska

May 9th, 1884.

Edison & Swan United Electric Light Co.

37 Holborn Viaduct,

London, E. C. England.

Dear Sirs:-

Referring to your letter of the 24th, April, we beg to enclose you herewith copy of a letter from the Armington & Sims Company in relation to the 13 x 13 engine at the Criterion Theatre.

We would emphasize what Messrs. Armington & Sims say about the engine having been started by you prior to your expert reporting on same. We do not for one moment think that the A & S people would send from their shop a defective engine. We are buying engines from them all the time, and invariably find that their treatment of us is the very best. We think the trouble must have been with the man who started the engine originally. Anyway Mr. Armington will in all probability go to look at the engine, and when Mr. Sims arrives in London we do not doubt but what he will arrange matters entirely to your satisfaction.

Very truly yours,

Sims
S

Enclosure.

Per S. S. Alaska

May 9th, 1884.

Deutsche Edison Gesellschaft,
Berlin, Germany.

Dear Sir:-

You will greatly oblige me if you can send me by return mail a copy of the decision of the German Patent Office in the suit with the Swan Company as to the lamp. The copy should be certified by the Officials of the German Patent Office, if possible, and also by the Chilean Consul. If you cannot get the German Patent Office Officials to give the necessary certification, cannot you have the copy made by a Notary Public and have a certificate attached by the Notary Public saying that the copy is an authentic one. The Notary should then appear before the Chilean Consul, whose certificate should be attached certifying that the Notary is such as he represents himself to be.

It may be that in Germany the official who gives the certification above asked for is other than a Notary Public. In this country all documents are certified to either by a Notary Public or Justice of the Peace. The certification that we desire is to be made by the German equivalent to this functionary.

I require this copy of the German decision for use in connection with my business in Chili. Any expense attached to the above please charge to my account.

Thanking you in advance for the trouble this will entail upon you, I remain,

Very truly yours,

J. L. P.

May 9th, 1914.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

Referring to your letter of the 7th. inst. with relation to the blue print of the street installation of Middletown we have been having very bad weather here for the past few days, and consequently have been unable to do any blue printing, but hope to send it to you by to-morrow's mail.

Yours truly,

T. A. Edison Constn. Dept.

By



May 9th, 1884.

G. C. Sims, Esq. Supt.

Providence, R. I.

Dear Sir:-

Referring to your favor of the 8th. inst., we are much obliged to you for the explanation in relation to the Criterion engine.

We will write to the London Company and point out to them that their report was made after the engine had been started by them.

Very truly yours,

W. G.

Per S. S. Crescent City,

May 8th. 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

Referring to your two cable orders received, and the probability of our receiving other orders from you, we think that it would be well for our mutual satisfaction and to enable you the better to deal with your business for us to cable when we ship each plant. With this object we shall use the key word signifying the character of the plant ordered and followed by the date the shipment is made, and to save expense in sending the cables. For example, if you receive a cable "Transgress Tenth" you will understand that we shipped you on the tenth outfit "B" with 75 sixteen candle lamps in place of ten candle lamps.

We have cabled you to-day as follows "Transgress shipped tenth", from which you will no doubt understand that your first order to us has been shipped.

Just as we are writing this letter we have received from you a cable as follows "Tramp", from which we gather that you desire us to ship outfit "A", with double quantity of wire. This shipment will be made at the first opportunity.

Very truly yours,

J. W. S.

May 9th, 1934.

To whom it may concern:-

This is to certify that Mr John F. Mc.Clain has been employed in this Department as a stenographer and typewriter since February 1st, last. His duties have been very faithfully and efficiently performed, and we consider him to be a very superior shorthand writer and an excellent typewriter, and take great pleasure in recommending him to any one requiring such assistance.

Manager.

May 9th, 1914.

To whom it may concern:-

This is to certify that Mr. Thomas F. Henderson has been employed in this Department as a typewriter and stenographer since January 1st, last. His duties have been very faithfully and efficiently discharged, and we take great pleasure in recommending him to any person requiring the services of a good stenographer and typewriter.

Manager.

May 12th,

4

C. G. Warner, Esq.?

General Auditor

Missouri Pacific Railway Co.

St. Louis, Mo.

Dear Sir:-

At the request of Mr. Chas. E. Rocap I take great pleasure in certifying that he acted as our chief Book Keeper for two years and a half at a salary of \$1800 per annum, and we found him in all respects competent and reliable in the discharge of his numerous duties. We consider him an exceptionally good book Keeper and we found him very valuable as an expert in initiating and elaborating methods of keeping our accounts in the early stages of our business. Mr. Rocap came to us highly recommended by Mr. A. Hegewisch, President of the United States Rolling Stock Co. and his connection with us was severed owing to changes in the Management of our business.

If I can give you any further information please command me.

Yours truly,

J. A. E.

President

May 13th, 1884.

A. S. Lissell, Esq.

Inoxville, Tenn.

Dear Sir:-

We have been unable to reply to your letter of the 3rd. April before to-day, owing to the work which the changes you desired made in Innoxville entailed.

We now hand you another estimate for this installation amounting to \$14,000.00, together with building specification and chart of the district. By referring to this latter you will observe that the lines as marked are exactly in accordance with your letter under reply.

Referring to your "P.4", we would say that the meaning of "No. 12 B.W.G." is No. 12 Birmingham Wire Gauge.

In regard to your "P.6", we do not consider it necessary to cap the top of poles with half inch hard pine. The top of the pole is not the portion which gives out first, and whether capped or not will outlast that section which is introduced into the ground.

In relation to your "P.7", do not you think that it might be as well for us to have a contract with the local Company in Innoxville for the installation of this plant before we discuss terms with contractors for the erection of the system.

May 13th, 1914.

2

In your "P.1", you refer to our cash offer for the erection of the pole line system, and you ask if we expect to pay a contractor twelve per cent less than the amount placed in our estimate for this work. Do you not understand that we have our own foreman to construct these lines and that they are not done by contract.

We should be pleased to comply with your request embodied in "P.2" were it not for the fact that we have none of Mr. Edison's photographs on hand, but immediately we get some more of them will send you one.

Very truly yours,

T. A. Edison Constr. Dept.

By 

Enclosure.

May 13th, 1884.

George D. Bancroft, Esq.

Worcester, Mass.

Dear Sir:-

Replying to your letter of the 10th. inst., enclosing a communication from Mr. Clemens Herschel, I beg to say that you can inform that gentleman that I will supply him with a dynamo machine and resistance box for steel printer circuit for \$275. Delivered and set up in running order at Holyoke, and will guarantee working the printer satisfactorily or no pay.

Very truly yours,

Dak
J

May 13th, 1884.

Geo. B. Scott Esq.

Gold and Stock Telegraph Co.

Western Union Building

N. Y. City.

Dear Sir:-

I sent you down by messenger boy to day a blue-print showing the space occupied by the engines and dynamos.

Will you please return same with your answer, by messenger boy tomorrow at your earliest convenience.

By so doing you will greatly oblige.

Yours truly,

Edison

May 13th, 1884.

H. G. Bollnag, Esq. Treas.

Newburgh, N. Y.

Dear Sir:-

We beg to acknowledge with thanks receipt of your favor of the 12th. inst., enclosing draft for \$4,000., and enclosed hand you receipt for same. We will write you further in relation to a credit for the amounts which you mentioned to us when last in New York as having been debited your account by the Electric Tube Company, in addition to the charge made by us. We also have that portion of your letter of the 12th., referring to credits, under consideration, and will communicate with you further on this subject.

Very truly yours,

T. A. Edison Constn. Dept.

By 

Enclosure.

May 13th, 1884.

Gustav Seldan, Esq., Supt.

City.

Dear Sir:-

Enclosed I hand you an order for the following machines
One "H" dynamo, one "S" dynamo, one "R" dynamo and one "G" dynamo,
with each of which you are to send twelve brushes. On the origi-
nal order from Eng. and Mr. Edison has noted the amperes opposite
each dynamo. You are to give each of these machines a ten hours
test, ^{at the amperes indicated} and you must be particularly careful to see that everything
in connection with them is in perfect order. They are to be
nicely painted, so as to make them look well, and you must your-
self superintend the packing of them, as we wish to avoid all
possible chances of damage in transit, and we cannot impress upon
you too strongly the necessity of having these machines in perfect
working condition and of having them packed in such a manner as
to render damage to them absolutely impossible, as if they prove a
success it means large orders for us from the same parties in
the future.

Yours truly,

Edison Machine Works,



Secty. & Treas.

Should any of these machines fail to prove satisfactory at the indicated amperes tested you will advise us immediately of the fact.

May 13th, 1884.

Western Edison Light Co.

George H. Bliss, Esq. Gen'l Supt.

Chicago, Ills.

Dear Sirs:-

Referring to your letter of the 10th. inst., in which you ask for lowest figures at which you can offer to make canvases and estimates for Edison Central Station Plants, we beg to say that the cost of such ^{work} depends very largely upon the circumstances under which it is performed. If you have a number of towns, say 25 or 30, and can run them all through together, the work is going to cost very much less than if only 3 or 3 towns are taken in hand and carried through to completion. We call a town completed when an estimate has been produced for installation of a plant. We have been doing some work in New York recently in connection with canvassing and preparing plans, and this has cost us upwards of \$1,000. up to the present time, and which ~~is~~ not yet completed. Of course this is an exceptional case, and the district are very large, entailing thereby a great deal of labor. To show you how these costs run we would state that the amounts opposite the following cities represent the cost to us of producing estimates for such towns, which of course includes making the

canvass, charts, plans, specifications &c.

New Orleans, La.....	\$ 332.47
Williamsport, Pa.....	169.33
Ypsilanti, Mich.....	170.23
Circleville, Ohio.....	100.10
Ann Arbor, Mich.....	107.49
Mobilo, Ala.....	212.75

We consider, however, that the amount of \$350., which you state you were advised to quote, is altogether too high. With the provision that you have not less than 10 towns to put through at once, we think you should be able to do the work at an average cost of \$175. per town, and we consider that you would be safe in quoting this price to inquirers.

Very truly yours,

T. A. Edison Constn. Dept.

By



May 13th, 1884.

C. E. Chinnock, Esq.

237 Pearl Street; City.

Dear Sir:-

Mr Edison has requested me to write and ask you if you cannot arrange to pay a 1 H.P. motor in the "Mail & Express". He says he can make arrangements so that they will not have to use it after dark.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'S. J.' or similar, written in a cursive style.

May 13th, 1854.

Messrs. Allston, Gerry & Co.,

60 Wall Street, City.

Dear Sirs:-

Your letter of the 9th. inst. has been referred to me for reply.

I beg to ask you if you could deliver the ore at 104 George Street, New York, where we could separate it, and which we can do to within two per cent.

Very truly yours,

J. W. G.

May 14th, 1884.

J. F. Kirby, Esq.

Piqua, Ohio.

Dear Sir:-

Owing to changes in our business we regret to say that we shall be compelled to dispense with your services after the 23rd inst.

We would suggest that you communicate with Mr. Stuart, of Cincinnati, as he may possible give you the work at Circleville. We have no control over the wiring there, as if we had we should most certainly send you ourselves.

Yours truly,

T. A. Edison Constn. Dept.

By 

May 14th, 1884.

W. C. Stevens, Esq.

Newburgh, N.Y.

Dear Sir:-

Owing to changes in our business we regret to say that we shall be compelled to discontinue your services after the 21st. inst.

Yours truly,

T. A. Edison Constn. Dept.

By



May 15th, 1884.

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.

City.

Dear Sir:-

I beg to give you below a list of the men I am now carrying in connection with my electrical staff, in anticipation of their services, in all probability, not being required at an early date in connection with central station work. I have no use whatever for these men at the present moment, and my only object in carrying them is, that it would seem to be a very great pity that these men should be lost to our business.

Considering the trouble and expense incurred in enabling them to obtain the necessary experience to efficiently perform their work, I shall be glad to know, if the Edison Electric Light Co. are willing to carry these men, pending the decision of the Committee now inquiring into the question of the future conducting of the Manufacturing and Construction business.

NAME.	SALARY.	ALLOWANCE.
H. M. Doubleday.....	\$ 24.00.....	\$ 17.50
Thomas P. Conant.....	25.00.....	17.50
James Lyman.....	10.00.....	17.50

NAME.	SALARY.	ALLOWANCE.
A. S. Beves.....	\$ 15.00.....	\$ 17.50
H. W. Leonard.....	20.00.....	17.50
Walker (wireman).....	10.00.....	17.50

Very truly yours,

Carl
l

May 15th, 1884.

The Electric Tube Co.

34 Bridge Street,

Brooklyn, N. Y.

Dear Sirs:-

Referring to the enclosed, there is no objection to your quoting prices so far as we can see. Holland is entirely free, as they have no patent laws, and if you can do any business with this firm so much the better. We would suggest, however, that your prices are quoted cash on shipment in New York.

Yours truly,

J. W. I.

Enclosure, b.

May 15th, 1884.

Dr. S. B. Farnham, Esq.

Priscott, A.T.

Dear Sir:-

Referring to your favor of the 29th. April, I have looked into the sample of copper wire insulated by the process you refer to, and in reply would state that I do not think it would be of any use to me in my business.

Yours truly,



May 15th, 1884.

Edison Lamp Co.

East Newark, N. J.

Dear Sirs:-

We have shipped you to-day box containing Swan Lamps,
from London, ordered by your Mr. Upton. Please keep them until
his return, as he wants them for some special purpose.

Yours truly,

A handwritten signature in dark ink, appearing to be the initials 'S.S.' or similar, written in a cursive style.

May 15th, 1884.

L. W. Sorrell, Esq.

140 Nassau Street, City.

Dear Sir:-

Referring to your favor of the 2nd. inst., I have no intention of paying the annuities you refer to.

Yours truly,

Jas

May 15th, 1884.

James Harris, Esq., Secty.

Bellefonte, Ponna.

Dear Sir:-

We have your two favors of the 12th, and 13th, insts.

We very much regret we have not been able to start work at Bellefonte ere this. We have been waiting for the delivery of the wire and also the foundation cap for our engine, which being a new size there has been considerable delay in getting *out*

We are promised our wire at a date which should enable us to get it to Bellefonte by about the 27th, of the month, and the stringing of same will take a very short time.

Why cannot you have the poles put up, so that when the wire arrives all that will have to be done will be to erect same.

We are writing to Mr. Perry by this mail with relation to the matter, and we shall be glad if you will consult with him.

We will order insulators and pins shipped to you immediately.

We are expecting that our Mr. Rich will be in Bellefonte in a very few days to make the alteration in connection with the engine.

Yours truly,
T. A. Edison Constn. Dept.
By

AS

May 15th, 1884.

F. S. Hastings, Esq.

City.

Dear Sir:-

Referring to our correspondence as to details required by the Committee of Expenditure with relations to accounts rendered for canvassing and estimating, I think the best way would be for me to place our vouchers and books at the disposal of the Chairman of your Committee, and he can then satisfy himself as to the correctness of our accounts. To get at the details asked for by him would entail on us a very great deal of work and considerable expense, and as I am very anxious to get an immediate settlement of the matter I should much prefer adopting the course above suggested. Will you please communicate with Mr. Goddard and advise me as to his views on the subject.

Yours truly,

T. A. Edison Constn. Dept.

By



May 15th, 1884.

Secretary,

Edison & Swan United Electric Light Co.

37 Holborn Viaduct,

London, E. C. England.

Dear Sir:-

I have your favor of the 1st. inst., enclosing order No. 638, for which I am much obliged.

I will take especial pains to see that the dynamos sent you are perfect in every respect. Our machines are all made with pulleys inside the bearings. Shipment will be made from New York in about a week.

Very truly yours,

J. W. Swan
J

May 15th, 1884.

H. H. Doubleday, Esq.

Shamokin, Penna.

Dear Sir:-

Referring to your favor of the 13th. inst., is not the
lamp breakage at Mt. Carmel very excessive. You mention 42 for
the month of April. Will you please inquire into this matter
and advise us.

Yours truly,

T. A. Edison Constn. Dept.

By



May 15th, 1884.

T. A. Stuart, Esq. Secy.
Cincinnati, Ohio.

Dear Sir:-

Referring to your favor of the 10th, inst., which would have been replied to you yesterday but for the absence from business of the writer, we would state that we do not think that we ought to be called upon to give you a full receipt for the amount due us under the Middletown contract, or for the twenty five per cent under the Circleville contract, until the thirty days note has been taken up by you. We may mention that up to this writing we have been unable to get your note discounted. We presume this is owing to the fact that the drawer is so far away as Cincinnati, and the natural disinclination of New York banks in the present state of the money market ~~to discount~~ here to discount paper which they are not thoroughly familiar with.

The map of Middletown and also of Troy have both been sent you by express some days back. If you have not received same please wire us immediately on receipt of this letter.
Yours truly,

T. A. Edison Constn. Dept.

By 

May 15th, 1884.

P. G. Grigg, Esq.

1 Queen Victoria Street,
London, E. C. England.

Dear Sir:-

Will you please buy and ship to me as soon as possible twenty five (25) Woodhouse & Rawson lamps of the old fibre, three watts per candle, price 4s. per lamp, also twenty five (25) of their lamps of the new fibre, 2³/₄ watts per candle, price 5s. per lamp. We notice they advertise these in the "Electrical Review."

Very truly yours,



May 13th, 1884.

W. L. Garrison, Esq. Treas.

Boston, Mass.

My Dear Mr. Garrison:-

Your favor of the 13th. inst. came duly to hand.

Why put any more boilers in until you absolutely need them? The new boilers can be erected inside of two weeks, and I do not see why you cannot pull through until September, which will give you more time for raising money.

If all the lamps you now have connected were to burn at once you would be working your feeders to their full capacity, so you must be careful and take measures ere long or you will have some trouble.

The map, giving the location of the lights you now have connected came to hand this morning. I ~~will have~~ ^{will have} the same thoroughly gone into by our mathematicians right away.

I understood Bergmann to say that lamps without porcelain shades will cost about \$25.

I do not see any reason why our stock should not be "boosted" up to \$1,000. per share. I wish they would give me a chance and let me see what I can do towards it.

Very truly yours,

J. A. J.

May 19th, 1884.

Everett Frazer, Esq.

123 Front Street, City.

Dear Sir:-

I am much obliged to you for your favor of the 15th inst., enclosing the letters which you would suggest Mr. Edison sending to Coran with relation to the exclusive rights, which you so kindly cabled about sometime back.

Very truly yours,

A handwritten signature, possibly 'A. J.', written in dark ink.

May 19th.

4

Charles Hatchelor, Esq.

104 Goerck Street, City.

Dear Sir:-

I beg to advise you that a meeting of the Board of Directors has been called for Wednesday, the 21st. inst., at 10.30 A.M. Inasmuch as the matter to be discussed is the future conduct of the Machine Works, will you kindly make it convenient to be present at the meeting.

Yours truly,

Secretary.

May 19th, 1884.

Western Edison Light Co.

51 Wabash Avenue,
Chicago, Ills.

Dear Sirs:-

We have your favor of the 15th. inst., and will be careful to see that you get the fullest possible information in relation to tests of dynamos, such as you suggest in your above referred to letter.

The resistance between the armature and base, which as you state is usually marked very high, should be infinite. It is, however, almost impracticable to get such a high standard of efficiency.

The City ~~Ordinance~~ ^{Ordinance} which you refer to as having been passed by the Chicago Board of Aldermen, would seem to us to have been directed against high tension current machines, and such a restriction is entirely unnecessary where the current is at so low a potential as 110 volts. Cannot you make some arrangement, so that this Ordinance can be modified in the case of low voltage machines?

Yours truly,
Edison Machine Works,

Secty. & Treasr.

May 19th, 1884.

G. W. Wilber, Esq.

Corner 4th. & Rodman Sts.

Fall River, Mass.

Dear Sir:-

I beg to acknowledge receipt of your letter asking whether anything had been decided here in regard to canvassing, and regret to say that up to this writing nothing whatever has been done, but will advise you as soon as anything takes place.

Yours truly,

T. A. Edison Constn. Dept.

By



May 19th, 1884.

Evrett Prazer, Esq. Korean Consul General,
123 Front Street, City.

Dear Sir:-

I have the pleasure to enclose you herewith letter in duplicate, dated the 19th. inst., and addressed to Gen. Lucius H. Foote, United States Minister to the Court of Korea, and also a letter addressed to His Excellency Min Yong Mok, President Korean Foreign Office.

I will esteem it a very great favor if you will so far oblige me as to see that these letters reach the parties to whom they are addressed, and any endorsement that you can give in connection with them will be highly appreciated by,

Yours very truly,

Jas

May 19th, 1934.

Gen'l. Lucius H. Foote,
Seoul, Corea,

Dear Sir:-

Through Mr Consul General Frazer, I took the liberty of sending you a cable despatch, on the 16th. April, reading:-

"Edison requests exclusive concession Electric Light (and) Telephone (in) Corea."

I trust that my despatch reached you in due course, and intelligibly, and that you found it convenient to have the application, therein contained, handed in to His Excellency Min Yong Mok, President of the Korean Foreign Office.

I have now the honor to hand you herein a letter addressed to His Excellency in confirmation of that cable application.

Will you do me the further favor of reading and delivering the enclosed, and accept my thanks for your kindness.

Believe me, Dear Sir,

Your obedient servant,

JM

May 18th. 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

I have your favor of the 6th. April, and have requested Major Eaton to look into the question of the defence of the patents in Chili. It is a matter which ~~shall~~^{will} have to be brought before the Directors of the Light Company, and we therefore regret to state that we cannot deal with it as promptly as we desire. We shall, however, see that no further delays absolutely take place than are necessary, and will write you fully in relation to the matter as soon as possible.

I may remark that I have written to Berlin for a certified copy of the decision rendered there.

Yours truly,

J. W. S.

May 10th, 1884.

O. P. Lowrey, Esq.

11 Broad Street, City.

My Dear Mr. Lowrey:-

I have your favor of the 10th. inst., and shall
be ready to see you whenever you desire me to with relation to
the matters to be discussed by the Committee of Three.

Very truly yours,

J. H. C.

May 19th.

4

George D. Bancroft, Esq.

Holyoke, Mass.

Dear Sir:-

What have you done with relation to dynamo machines
for supplying current to the Western Union Co. at Holyoke?

Very truly yours,

Jay
J

May 18th.

4

Charles Batchelor, Esq.

City.

Dear Sir:-

I enclose you herewith letter from Mr. Bentley with relation to an extra armature for one of his machines. I think a special armature will have to be made, but Mr. Soldan will now about this.

I have written Mr. Bentley, acknowledging receipt of his letter and stating that we would ship ^{armature} ~~it~~ when it is ready.

Yours truly,

Soc'y. & Treas.

Enclosure.

May 16th.

4

Henry Bentley, Esq. Prost.

Phila. Local Telegraph Co.

107 South Third St.

Phila. Penna.

Dear Sir:-

We have your favor of May 13th. ^{addressed to Mr Edison} and have ordered an armature to be built for you, which shall be shipped immediately same is ready.

Yours truly,

Soc'y. & Treas.

May 10th, 1884.

Thomas A. Edison, Esq.

65 Fifth Avenue, City.

Dear Sir:-

A special meeting of the Board of Trustees of the Edison Machine Works will be held at the office of the Company, No. 65 Fifth Avenue, on Wednesday the 21st. day of May, at 10.30 A.M., by order of the President.

Yours truly,

Secretary.

May 19th, 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have your favor of the 10th, inst., and beg to return you herewith the Circleville contract duly executed by us.

We will hurry the material forward and advise you in a day or two as to the matter.

Yours truly,

T. A. Edison Constn. Dept.

By



Enclosure.

S S Para

May 20th, 1884.

Rafael Gutanada, Esq.

Calle del Halcón, No. 156, 159, 160

Guayaquil, Ecuador.

Dear Sir:-

Referring to your favor of the 30th. March, with relation to electric light apparatus, I beg to state that your communication arrived at a time when I was absent from business, which you must please accept as my apology for not replying earlier.

I will write you by the next mail making you propositions in detail with relation to the exploitation of my system of electric lighting in your country.

I will consult with Mr. Levy in relation to this matter.

Very truly yours,

Jah
I

S. S. Seythia

May 20th, 1884.

"Secretary",

Edison & Swan United Electric Light Co.,

37 Holborn Viaduct,

London, E. C. England.

Dear Sir:-

Would it not be possible for you to rent out some of the "C" machines, which we now have in stock for you, at say 300 per annum, and which would give you about ten per cent return on the investment and five per cent depreciation? There is comparatively little work still to be done on the dynamos (at a cost to you of about £1700. each), and we would very much like to get them out of our shop, and we think if you could make some such arrangement as above, it would pay you to have them finished up immediately. The room occupied by the engine and dynamo is comparatively small for the results obtained, and when it became necessary for you to move them, if you only rented them for a certain time, this work could be done comparatively cheaply, as compared with moving small machines and a number of engines, and besides which a rental of 300 per annum would be a very moderate one, and if it should be considered essential to have a spare machine, which personally I consider

absolutely unnecessary, you might let parties have them on payment of 150 per year extra, providing your customer would agree to use the spare only when the regular one was out of order, and this would give you a return of about eight per cent on the investment and no depreciation, and besides earning interest on your investment on the dynamo machine, you would be making money on your lamps, and you would save the loss you are now subject to, owing to the machines lying idle and eating up interest.

Very truly yours,

J. H. [Signature]

S. S. Para

May 20th, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

I beg to enclose you herewith copies of the two contracts of the 9th. February, 1884, which we hope you will find bears all the notarial, judicial and consular seals and certifies that it is possible for you to wish for. Please acknowledge receipt and return the copies you now have, unless there is any particular reason for your retaining them.

Very truly yours,

S. S. Para
S

Enclosure.

S. S. Para

May 20th, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

I have a number of your letters. One with relation to Peru, another with relation to Bolivia, and a third one concerning a man for central station work, and a fourth one with relation to the price to be charged for lamps, all of which I will answer you by the next mail, suffice to say for the moment that we have got Bolivia from the Light Company, and immediately I can go into the proposition you make, which will be to-morrow or the next day, I will write you a firm offer in connection with this matter.

I cabled to you to-day, "Tramp, twentieth", from which, in the reading of my former letters, you will understand that we have shipped to you outfit "A", 25 light plant.

Very truly yours,

S. S. Para

May 21st, 1884.

My Dear Mitchell:-

Mr Edison has to-day sent down to the Superintendent of the Station at Pearl Street data on which he can now quote you a price for putting up the motor to run your Gordon press.

I do not doubt but what the Superintendent, Mr. Chinnock, will call on you either to-day or to-morrow in relation to the matter.

With kind regards, I remain,

Very truly yours,



To

Francis B. Mitchell,

23 Park Row, City.

May 21st, 1884.

C. E. Chinnock, Esq.

257 Pearl Street, City.

Dear Sir:-

I have looked into the matter ~~xxx~~ of the motor for the "Hail & Express", and I find that we can use a 25 light machine, which will cost the Illuminating Co. about \$200.. We should wind the machine so as to run at about 400 or 500 revolutions.

I think it would be well for you to offer Mr. Francis B. Mitchell, the publisher, to put in the motor and belt same to the Gordon press, that he wants to use it in connection with, for the sum of \$15., and then rent the motor to him for \$1. per week, giving him to understand that the current will be charged for through the meter just the same as for light, according to the time he uses the motor and the power he takes out of it.

Would you kindly see Mr. Mitchell about this matter immediately, as he called on me personally, and I told him that I would see that no further delay occurred. Of course I understand the delay is by no means owing to any fault of yours.

Very truly yours,

J. M. S.

May 21st, 1884.

Thomas . P. Conant, Esq.

Newburgh, N.Y.

Dear Sir:-

Referring to your letter about the Arrington & Sims engine, I beg to advise you that Mr. M. P. Moore, of the A. & S. Co., will call at the station at Newburgh to see you about one o'clock to-morrow. I think it would be well for him to meet Mr Beckman there if possible.

Yours truly,

T. A. Edison Constn. Dept.

By



May 21st, 1884.

George H. Bliss, Esq.
Chicago, Ills.

Dear Sir:-

I have your favor of the 18th. inst. from Des Moines,
and am glad to hear that you have succeeded in getting the Edison
Lighting Co. formed there, and hope you will be able to carry the
matter to a thoroughly successful conclusion.

Very truly yours,

Wm
I

May 21st. 1884.

W. S. Andrews, Esq.

City.

Dear Sir:-

The probable cause of the trouble at Sunbury with the boiler is that engineor does not carry high enough pressure. The springs originally sent there were set so that the valve would pop at 80 lbs., and we subsequently sent ~~three~~ springs to enable them to carry 125 lbs. The very lowest pressure they should carry is 100 lbs.

Yours truly,

T. A. Edison Constn. Dept.

By



May 21st.

4

S. E. Eaton, Esq. Prost.

Edison Electric Light Co.

63 Fifth Avenue, City.

Dear Sir:-

We have still a number of towns to prepare estimates for, as per written instructions received from Mr Hastings.

As it is very improbable that the work in connection with these estimates will be done by us, and inasmuch as it is a heavy expense to us to have to carry our engineering force, and further as the work is being done on the Light Company's account, could you not arrange to carry our engineering pay roll in connection with this work until some decision is arrived at with relation to the future conduct of the engineering and construction work.

Our staff is composed of the following men:-

	<u>Salary</u>
C. H. Campbell, Engineer.....	\$ 40.00
C. C. Y. King, Engineer.....	37.50
C. Ullmann, Draughtsman.....	15.00
J. T. Atkins, Blue printer.....	15.00
H. Guimaraes, Map and Elect. determining	30.00
Forward.....	137.50

Forward.....\$137.50

B. Gaar, Mapping and object. dotmg..... 25.00

Paul D. Dyer, Canvasser (including
allowance for expenses)..... 37.50

TOTAL.....\$200.00

Your early decision in relation to this matter will greatly oblige, and, if you agree with the above suggestions, we should like this arrangement to start from the same date as that on which the Light Company assumed the pay roll of a portion of our electrical staff.

Yours truly,

Jah

May 21st, 1884.

Edison Lamp Co.

East Newark, N. J.

Dear Sirs:-

Referring to your favor of the 17th, inst., I have written to Paris stating that if the Italian Committee will make an exact statement of their claims with relation to "B" lamps we will submit same to you for adjustment. I think it best to pursue this course, rather than to send the number of lamps spoken of by Mr. Lieb, as his letter does not state whether the twenty one lamps, which he found defective, is the total on which his Company would make reclamation.

Very truly yours,

A handwritten signature, possibly initials, in dark ink, located below the typed closing of the letter.

May 21st. 1884.

J. I. Ferrell, Esq.

Southward Foundry and Machine Co.

Phila. Penna.

Dear Sir:-

I would remind you that I have not yet received the price list of the gas engines as promised by you.

I want prices for all engines between 3 and 20 H.P., and in classifying the engines I would like them classified per power delivered on the belt.

I think I can work up considerable business in these gas engines, and I should therefore ask you to quote me the best terms on which you will supply them to me.

Very truly yours,

Jak
J

May 21st, 1884.

Otto Gas Engine Co.

Phila. Penna.

Dear Sirs:-

I have considerable orders for gas engines and should like to receive from you your lowest prices for all sizes of engines between 3 and 20 H.P.

In classifying the engines please give me the horse power you will guarantee delivered on the belt.

These engines are for use throughout the United States, and I am anxious to make some special arrangement as to prices. I think I can do considerable business in this connection.

Very truly yours,

Jas
L

May 21st, 1894.

Col. George W. Sherman,

care Messrs. Smith & McNell,

Greenwich Street, Bet. Vesey & Fulton Sts.

City.

Dear Sir:-

Will you kindly call at this office, at half past two o'clock to-morrow afternoon, to settle matters in relation to your agreement.

Yours truly,

A handwritten signature, possibly initials, consisting of a stylized 'S' and 'J' or similar characters.

May 22nd, 1884.

W. DE Rich, Esq.

City.

Dear Sir:-

We understand that there was some serious trouble with one of the engines in the central station on the 20th. inst.

On the evening of that day you were here in the office, but did not say a word to us in relation to the matter. We certainly think that all trouble you may have should at once be reported to us. In this case we are very seriously inconvenienced by the breakdown, and, naturally, feel somewhat surprised that we should have to get our information in reference to the matter from outside parties, rather than from our own people connected with this Department.

Yours truly,

T. A. Edison Constn. Dept.

By 

May 22nd, 1884.

Edison Lamp Co.

East Newark, N. J.

Dear Sirs:-

I have your favor of the 22nd. May, and again beg to return the invoice for ten candle lamps billed at sixty cents.

I am going to run the whole of the Santiago business from this office, and I cannot see any reason why we should pay sixty cents for ten candle lamps if we ship them to Santiago and fifty cents if we ship them to Shamokin.

Very truly yours,



Enclosure, 2.

May 22nd.

4

Messrs. Borgmann & Co.

City.

Dear Sirs:-

It is now upwards of a week since you promised me to ship some equalizers the next day, and this promise was but a repetition of one you had given me about a week previous.

I have tried in every possible manner to impress upon you that you are subjecting our Construction Department to an enormous loss by delaying these instruments, but my remarks to you on this subject seem to be absolutely without effect.

Will you please give us absolutely a date on which you will undertake to ship some equalizers, as our patience in relation to this matter is well nigh exhausted. It is now about thirty five days since the instruments were ordered from you, and at the time the orders were given you absolutely promised to ship some within twenty one days. An answer by bearer will greatly oblige,

Yours truly,

T. A. Edison Constn. Dept.

By



May 23ns
May 23nd.

4

St B. Eaton, Esq. Presd.

Edison Electric Light Co.
City.

Dear Sir:-

Referring to your favor of the 21st. inst., with relation to my engineering force, I would point out to you that it is not a matter of assuming the expense of same, as this is practically done by the orders given us by the Light Company to make canvasses and estimates, ~~inasmuch~~ ^{inasmuch} as we are working on nothing else at the present time, ~~that~~ ^{what} I want done is simply that they shall make part payment as the work progresses, namely, the pay roll belonging to the work, instead of my having to wait until my bills for the work are put in and accepted. I think if you would point this out to the Committee it would materially effect their decision in relation to the matter.

Very truly yours,

J. J. [Signature]

May 23rd, 1884.

"Secretary",

Edison & Swan United Electric Light Co.

87 Holborn Viaduct,

London, E. C. England.

Dear Sir:-

I find that in your letter of the 22nd, April you ask for some information, in reference to deadeners or mufflers, which I appear to have overlooked.

I send you herewith a circular descriptive of the Shaw Noise Quieting Nozzle, which I referred to in speaking to you when you were here.

I pay for these instruments as follows:-

A 4" to 6" pipe.....	\$ 150,00
A 7" to 10" pipe.....	230,00
A 10" to 12" pipe.....	400,00

The price list you ask for in the same letter as to the number of different sizes of low speed dynamos, is now being got out, and will be sent forward to you immediately certain experiments I am now conducting are completed.

With relation to the orders for four 250 ampere machines

running at 300 revolutions, I would mention that our Companies here have instructed me to build some machines of the same type, and at the same time have requested Messrs. Armington & Sims to build an upright engine to be attached to the dynamo and to run of course at the same speed. I am very sanguine that this engine will be very superior in every respect to any engines which are now being used, and immediately the Armington & Sims Co. send us the first one for test, I will give you further information in relation to the matter.

Very truly yours,

J. M. I.

Enclosure.

May 23rd. 1884.

Messrs. Parvost & Co.,

Casilla 9,

Lima, Peru.

Dear Sirs:-

By arrangement with the Edison Electric Light Company I am undertaking to exploit more actively their business in Bolivia, and I understand from my Chilean agent, Mr. W. N. Stewart, that he had some conversation with you in relation to the matter when in your City in February.

I have wired Mr. Stewart, requesting him to take charge of the Bolivian business, and he requested me, in the event of my doing this, to notify you that you might enter into an arrangement with him in relation to same, which I accordingly have the pleasure in doing.

Very truly yours,

J. A. Edison

May 23rd, 1884.

Rafael Outanoda, Esq.

Guayaquil, Ecuador.

Dear Sir:-

Further referring to your favor of the 30th. March,
I beg to send you herewith copies of portions of the cities of
Tiffin, Ohio, Newburgh, New York and Piqua, Ohio, showing you
where our electric light conductors run in these cities.
In Tiffin and Piqua the wires are run overhead attached to poles,
but in Newburgh underground conductors are used. I also send you
herewith a statement showing you how to get at the information we
desire before it is possible to estimate on exactly what material
would be required for lighting up the City of Guayaquil, either
for private or street lighting. If you can send me the necessary
data, which the above referred to statements explains as being
necessary, and also a map of the City showing me what portions
you would propose lighting, I can send you an absolute estimate
of the cost of the material. I should also like to have from
you the cost of wood for fuel, coal and quality of same, sizes of
poles from thirty to forty feet long, and also the thickness of
same at the top. In addition to the above referred to maps I

send you blue prints, which will show you the ground plan of the interior of our electric light stations in the towns of Tiffin, Newburgh and Piqua.

I may explain that we have, in addition to the plants above mentioned, upwards of twelve other cities already lighted, besides a great number of buildings in all parts of the United States lighted with machines owned by the proprietors of the buildings themselves.

I also send you a statement of the apparatus necessary for a 500 light electric light station, and also of stations of 800, 1000, 1600 and 3200 lights. In these estimates I have left out the wire necessary to carry the electric current, inasmuch as we cannot calculate what quantity will be required until we get such information as is asked for above. As a rule, however, when the price of the wire is added the estimates would be from per cent to per cent more than given in the accompanying statement. The cost of supplies for wire for the interior lighting, together with the fixtures, of course varies, according to the nature of the lighting and the quantity of lights, but the following amount would, in all probability, be sufficient to enable

you to start the business in connection with the plants by a size mentioned below. If you cannot send me the exact data as asked for in one of the accompanying statements, please send me a map of your City, marking on same the area you would propose to light for interior lighting, and also the position and number of street lights which you would require. The street lighting is done by means of separate circuits, so that in the estimates sent you I have not included the plant for the lighting of the streets, but the cost of this is comparatively low and depends mainly upon the position and number of street lights. If you propose erecting a plant, such as is scheduled in the ~~XXXX~~ accompanying statement, it would, in all probability, be necessary for you to have to experts to put in the machinery and teach your employees how to run the business. I should be happy to supply you with these on the following terms. You to pay me the travelling expenses of the experts from and back to New York and to provide them with suitable board and lodging whilst performing your work, and to pay me the amount of \$150. per month for each man, from the time he leaves New York until he arrives back again. Of course you would have to supply all ~~XXXXXXXXXX~~ ordinary labor in connection with the work

they would simply superintend ~~me~~.

Should you be able to negotiate the sale of a central station plant, I will allow you a discount of per cent on prices quoted. My prices are quoted free on board in New York, payment to be made by bankers here in the City immediately on the receipt by them of invoices and bills of lading.

The whole of the above simply refers to what we term central station lighting, that is the lighting of houses from one central point in the city. In addition to this work we do in this ~~xxx~~ country what is termed the business of isolated lighting, that is the installation of a dynamo machine and other apparatus.

I send you by this mail estimates for 25 light, 50 light, 100 light, 200 light, 300 light and 400 light plants. The prices quoted in these are free on board in New York, payment to be made on presentation of bills of lading and invoices to bankers here.

If you can do business of this character, I shall be glad to allow you a discount of per cent on all orders you get for us.

Any further information you may desire I shall be most happy to supply you with, and in the meantime have the pleasure to remain,
Very truly yours,

May 23rd. 1884.

Gardner G. Sims, Esq.

Providence, R. I.

My Dear Gardner:-

Will you please think about the matter of your business in South America and see if we cannot arrange to get from you the exclusive agency for your engines, so as to work it in connection with our light business.

Very truly yours,

A handwritten signature in dark ink, appearing to be the initials 'S.S.' or similar, written in a cursive style.

May 23rd. 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

I have been through all your letters addressed to Mr. Edison to-day, and dictated replies in relation to the matters that appear to be open.

I may state that we are going actively into the business of the light for South America.

Mr. Edison has got from the Light Co. full control of all South American countries, and I am going to take the general direction of this business in his office. We want to see Chili the banner country, and if you do not get all the attention you want or that you are entitled to, if you will advise us we will do our best to satisfy you.

Very truly yours,



May 23rd, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

Referring to your favor of the 9th. April, I beg to inform you that ten candle lamps cost fifty and ten cents, that is sixty cents, in New York. I think you should charge seventy five cents for those lamps in connection with village plants.

Very truly yours,

J. W. I

May 23rd, 1884.

V. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

I notice in your letter of February 10th. that you refer to Messrs. D. Arcos & Co. with relation to the electric light at Guayaquil, Ecuador.

I have advices from Ecuador to the effect that Messrs. Outanoda & Vinnesa have obtained the exclusive concession for fifty years for the lighting of the Cities of Guayaquil, Quito and Cuonca, and Rafael Outanoda has written me, asking for full information with relation to electric lighting.

I am rather in a quandary as to what to do in relation to this matter, and if you can give me any information in relation to those people I shall be very much obliged.

Very truly yours,



May 23rd, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

Referring to your favor of the 27th. February, I have at last succeeded in getting control of Bolivia, and shall be most happy to make an arrangement to work Bolivia through you on the same basis as our Chilean contract, with the exception that I will allow you fifty per cent, instead of forty per cent as in the case of Chile.

Will this arrangement be satisfactory to you? If so, please advise me and I will have the papers drawn up and sent to you forthwith.

I have ordered two sets of new brushholders, the same as on the new 25 light machine, and twenty five brushes to be shipped to you at Valparaiso by the next steamer.

Immediately I got control of Bolivia, I cabled you yesterday "Exploit Bolivia", from which you will doubtless gather that I am able to make an arrangement with you with relation to this territory.

I have advised Messrs. Prevost & Co. that they should confer with you in relation to Bolivia, as you have the direction of that business.

Very truly yours,

W. N. Stewart

May 23rd. 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

Referring to your various propositions, both in letters to Major Eaton and myself, with relation to the running of the Santiago station, I beg to state that I think it would be a very great mistake to try to merge our contract into the Santiago Co., or to merge our contract and the Santiago Co. into one national Company. I think there is far more money in it for all parties concerned if you will go ahead and work your contract with me without reference to the Santiago business. Of course it is my sincere desire that you should do everything possible to improve the condition of the Santiago station, and if you can make any arrangement with the shareholders by which, at the same time your efforts are directed towards improving their property, you can make money for yourself, I need hardly say that you will meet with my most cordial support.

Very truly yours,

J. A. E.

P.S. The reason I think it would be better for us to keep to our own contract is that if the exploitation of my system in Chili is left to a Board of Directors the progress would be very slow indeed, whereas if it is dependent upon your individual efforts I am sanguine of far better results, attainable in a far less time.

May 23rd. 1884.

W. H. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

I notice in your letter of the 27th. February that you suggest that I should enter into an arrangement with Messrs. Prevost & Co. to work our light in Peru.

As I understand it Messrs. Prevost & Co. were the agents of Fabbri & Chauncey, and so far as I understand no business of any consequence has been done in Peru.

Before writing them on the subject I should like to have your ideas further in connection with this matter. As I understand it, if some arrangement is made by me with Prevost & Co., you would propose making some working arrangement with them by which the business of Peru and Chili would be worked jointly, or that in any event you and Prevost & Co. would co-operate for mutual advantage.

Please let me hear from you fully in relation to the Peruvian business, your opinion of Prevost & Co., what you think the prospects are there for business, whether it would be better for me to send a man out from here to Peru or whether my interests would be better served by negotiating with Prevost & Co.

I leave it to your discretion as to whether you suggest to Prevost & Co., on receipt of this, that they should write me offering to open business relations with me in

tion with working the light in Peru.

Very truly yours,

J. W.

P. S. I am ^{not} particularly impressed by Fabbri & Chauncey's agents, judging from what they have done so far, and that is the reason why I ask you whether it would not be better to send a man from here rather than to enter into arrangements with Messrs. Prevost & Co. If, however, you think Messrs. Prevost & Co. would run the business in a business like manner I would be inclined to deal with them.

May 24th, 1884.

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Your letter of the 18th. May, addressed to Mr. S. B. Eaton, President, has been brought to my attention, and inasmuch as you state therein that I have made misstatements, I think it well to write and set you right on this matter.

Mr. Doubleday was left to act as he might choose. I required him at Shamokin for a few days and after that he was quite at liberty to dispose of himself in such a manner as he might think best. What his arrangements were in relation to Cumberland I do not know, as I have had no communication whatever with the parties there. I fancy Mr. Doubleday started his negotiations with them through Mr. Marr, of Sunbury.

I very much regret that his actions should have caused you or your Williamsport Company any inconvenience, but it is a matter which should be settled with Mr. Doubleday alone and one in connection with which my name should not be brought, except so far as my statement that I was willing for Mr. Doubleday to go to Williamsport or any where else that he might elect after he had left my service.

I must most earnestly protest against your assertion that I made a misstatement, when indeed the fact is that I offered to supply Major Eaton with any of the members of my staff that he might choose to call for, and which is a sufficient repudiation of your charge against me.

My great desire is that a station should be erected in Williamsport, and anything that I can do to further the business in this connection I shall be most happy to do.

Very truly yours,

J. M.

May 20th, 1884.

C. E. Chinnock, Esq.

357 Pearl Street, City.

Dear Sir:-

Referring to yours of the 24th. inst., I think you had better advise Mr. Mitchell ~~to~~ to use his water with small motor, as interest on our motor with depreciation would eat up any profits to us, if we merely sold him the current and loaned the motor.

Yours truly,

J. A. C.
J

May 20th, 1884.

B. A. Brooks, Esq.

Room 113, Temple Court,
5 Hookman Street, City.

Dear Sir:-

Referring to your favor of the 23rd. inst., I shall be
glad to see you here any morning you can find it convenient to
call about eleven o'clock.

Yours truly,

*Wm
I*

May 26th, 1884.

H. C. Yost, Esq. Treas.

Hazleton, Penna.

Dear Sir:-

We have your favor of the 24th. inst., and of course would not ask your Directors to settle their account with us until your plant is in a satisfactory condition.

At the same time that your letter arrived Mr. Andrews, our Chief Electrical Expert, returned here from Hazleton, and I have a statement from him of the defects in connection with your station. We will have the various matters looked into immediately and set right, as it is our earnest desire that your Board of Directors should be perfectly satisfied in every respect.

Very truly yours,

T. A. Edison Constn. Dept.

By



May 20th. 1884.

A. Stuart, Esq. Socy.
Cincinnati, Ohio.

Dear Sir:-

We have the pleasure to acknowledge receipt of your favor of the 22nd. inst., and beg to inform you that we have received from the Tiffin Company a remittance of \$1500..

We have ordered our electrician to Circleville, and he will be there in the course of a day or two.

Yours truly,

T. A. Edison Constn. Dept.

By



Personal

May 20th. 1884.

A. Stuart, Esq.

Cincinnati, Ohio.

Dear Sir:-

I was present at a meeting of some of the principal people connected with the Edison Electric Light Company on Saturday last, and in talking over our business reference was made to yourself, and one gentleman stated that you found it absolutely impossible to deal with our Construction Department, and that you had given up trying to get what you wanted, and so far as you were compelled to deal with us you would simply accept what we had to say and not dispute it.

The statement was made to prove that we are impracticable, and inasmuch as my dealings with you have always been of the most pleasant character, and that I have always endeavored to satisfy you in the best possible manner and to give you entire satisfaction, the statement somewhat surprised me.

Would you mind letting me know, if the above statement attributed to you, is substantially correct, and if you can suggest any means by which we can rectify our mode of procedure, so as to more closely accord with your wishes, it will be my earnest desire to endeavor to follow your suggestions. I had thought that we had endeavored to render every possible kind of assistance.

Very truly yours,



May 20th, 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have your letter of the 24th. inst.

I have only the same grounds of judging of Mr. Leonard's ability for the position you speak of as you have yourself. I agree with you that he is a very smart young man, has a great deal of push in him and is endowed with a good deal of what you term "chool". He might succeed in the work that you desire him to do or might not. Anyway I am perfectly willing that you should take him, if you so desire, and in writing to him I authorize you to tell him so.

I am paying him at the present time \$20. per week and \$2.50 per day to cover his hotel expenses, he receiving his bare travelling expenses in addition.

He has been wanting an increase of salary for several months past, and I had promised to give him an increase as soon as the state of the business justified it.

Leonard is very well posted as to the technical part of our business. How much he knows of the commercial side of it I do not know.

Please advise me whatever course you may decide to pursue

May 20th. 1884.

2

in the matter, and I need scarcely say that if there is any way
in which I can help you, I am always quite willing to do so.

Very truly yours,

J. A. C.

J

Mr. S.

Mr. Edison would have signed
this himself but he left the
office before letter was typewritten

I would

May 27th, 1884.

J. R. Campbell, Esq.

City.

Dear Sir:-

I regret to have to inform you that owing to changes that are now in the course of progress in connection with our business organization, we shall be compelled to dispense with your services one week from Thursday next, the 29th. prox.

We trust that this will prove but a temporarily severance of your connection with us, as we hope that the negotiations now pending will either result in our conducting the Construction Department, or else turning over the business either to the Light or Isolated Company. If the latter should be the case, we need hardly assure you that we will do everything we possibly can to obtain for you a position in connection with the business.

Yours truly,

T. A. Edison Constn. Dept.

By



May 27th, 1884.

To Whom it May Concern:-

This is to certify that Mr. J. F. Kirby has been working for us for about a year, and has performed his duties as an expert wireman in a perfectly satisfactory manner. We believe him to be thoroughly reliable and efficient, and that he would give perfect satisfaction in any similar position. The only reason we have for dispensing with his services is that we are making changes in our business organization.

T. A. Edison Constn. Dept.

By

SS
G. Mearns

May 27th. 1884.

G. G. Y. King, Esq.

City.

Dear Sir:-

I regret to have to inform you that owing to changes that are now in the course of progress in connection with our business organization, we shall be compelled to dispense with your services one week from Thursday next, the 29th. prox., as the writor has personally explained to you.

We trust that this will prove but a temporarily severance of your connection with us, as we hope that the negotiations now pending will either result in our conducting the Construction Department, or else turning over the business either to the Light or Isolated Company. If the latter should be the case, we need hardly assure you that we will do everything we possibly can to obtain for you a position in connection with the business.

Yours truly,

T. A. Edison Constn. Dept.

By



May 27th. 1884.

Edward H. Johnson, Esq.

City.

Dear Sir:-

I beg to enclose you herewith statement for work done on the "Oregon", amounting to \$327.25.

This matter has remained open for quite a long time, and the work, although done for the London Company, was billed to you at your request.

I am inclined to think that if this matter had been dealt with in the ordinary current account with the London Company, that we should have got a settlement some time back.

Will you either take the matter in hand yourself or else have the accounts handed over to me, and I will endeavor to collect them.

Yours truly,



Enclosure.

May 27th, 1884.

William Schenk, Esq. Pres.

Mt. Carmel, Penna.

Dear Sir:-

We wrote you on the 15th. and 23rd. May, and sent you telegrams on the 21st. and 23rd. May, asking you to send us a remittance in settlement of our accounts with you, which show a balance against you of \$5,485.96

We regret to say that we have not yet, up to this writing, received any acknowledgement from you of the above letters and despatches, and we fear very much that they must have miscarried.

Our account with you is now upwards of three months overdue.

At the time the contract was signed with you, it was understood that your payments would be promptly made, and in fact one of the reasons urged by you, in asking us to reduce the amount of the contract, was that we could depend absolutely on getting our money as the payments fell due.

We sincerely trust that you will send us a remittance for the whole amount of your indebtedness to us by return, as your long delay is causing us very serious inconvenience.

Very truly yours,



"Colon"

No. 1.

May 27th, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

For greater convenience in detecting whether our letters have miscarried, I shall from this date number the letters sent to you, starting from this letter No. 1.

Very truly yours,

W. N. S.

May 27th, 1884.

John T. Perry, Esq.

Hollifonte, Penna.

Dear Sir:-

We have your favor of May 25th., and will see that the various articles you speak of are sent forward.

The wire we have sent you for the extension is made large enough for the local company to connect their 900 feet of extension on to the end of it, this being our arrangement with the local company. They will therefore have to order wire for their 900 feet of the extension. We shall be glad to sell it to them if they so desire, as we have a considerable stock on hand.

Yours truly,

T. A. Edison Constn. Dept.

By



May 28th, 1884.

Messrs. Bergmann & Co.

292 Avenue B, City.

Dear Sirs:-

Will you please send by registered mail to W. N. Stewart, care Edison Electric Light Co., Santiago, Chili, one agate stylus for the phonograph which you shipped to Santiago, and also one silver plate with the following engraved upon it:-

"Presented to Prof. Luis J. Zegers by Thomas A. Edison."

Mr. Stewart wishes to fix this plate on the phonograph, so you will no doubt know what to get up. Please send bill for above to me.

Yours truly,



May 28th, 1884.

Everett Frazer, Esq.

Korean Consulate General,
123 Front Street, City.

Dear Sir:-

I have your favor of the 27th. inst., and have given instructions for some instruments to be set up, and as soon as they are ready I will let you know, as I should like to have you and some of your friends see them working. I do not think I could arrange to send any to Korea just at present.

The first time I am down town I will do myself the pleasure of calling on you to see what you have written to General Poote.

I think it would be better to defer the interview with the Japanese Consul until such time as the instruments, above referred to, are in shape, and then I would propose taking him with you over to my Laboratory to see them in operation.

Very truly yours,



May 20th. 1884.

S. B. Eaton, Esq. Prost.

Edison Electric Light Co.

City.

Dear Sir:-

I have your favor of the 20th. inst., with relation to the engineering and electrical force of the Construction Dept.

I think the amount stated is quite inadequate, unless the Executive Committee are willing that the business should be conducted without the Light Co. having an engineering force, or one to which they can refer to when required.

I will, however, make the best possible disposition of the money, and Mr. Insull will see you in relation to the details of the matter.

Very truly yours,



May 26th, 1884.

S. B. Eaton, Esq. Pres.

Edison Electric Light Co.

City.

Dear Sir:-

I beg to enclose you herewith check for \$118.75, being royalties due you on orders received from Mt Stewart up to this date, as per accompanying memorandum.

Please acknowledge receipt of same, and oblige,

Very truly yours,

Jab

May 28th, 1884.

S. B. Eaton, Esq. Prest.

Edison Electric Light Co.

City.

Dear Sir:-

I have the pleasure to acknowledge receipt of your favor of the 26th. inst., with relation to the exploitation of the light in South America and Mexico.

The arrangement proposed by you is perfectly satisfactory, and I shall be glad if you will go ahead and have the necessary contracts prepared, as I am already proceeding to organize, for the purpose of exploiting the business, with as great rapidity as possible.

Very truly yours,

J. A.

May 28th, 1894.

Mr. Linney,

care Bergmann & Co.

292 Avenue B, City.

Dear Sir:-

Will you please have the autographic instruments put
in shape the first opportunity you have and advise me of same,
as I wish to bring some gentlemen down to see them.

Yours truly,

Wm

Japanese Minister

May 20th. 1884.

A. Schlessor, M. D.

Hastings-on-Hudson, N.Y.

Dear Sir:-

Referring to your favor of the 20th. inst., I shall be glad to look into the insulating compound you speak of as soon as you have your patents out and samples ready for test.

Very truly yours,

John I

"Colon"

No. 5.

May 20th, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

CHILLAN. I have your favor of the 22nd. April, enclosing map of Chillan with canvass ~~xxxxxxx~~ plotted on same, spexial report of prices of material also report on central station lot and memorandum as to the material which you require an estimate for, and supplement to cable code.

I am having this estimate pushed through, and will cable you immediately I have got the figures out.

It would have been better if you had located on the map where you think street lamps will be required, but inasmuch as you have not done this, I will have the copper figured out at a loss of ten per cent on the feeders and two per cent on mains, so that should you put on about 200 street lamps, in addition to the 500 house lights, your loss will be fifteen per cent on feeders and three per cent on mains, this being the loss on which we ordinarily calculate in this country.

Very truly yours,



"Colon"

No. 3.

May 28th, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

Referring to your request for certain material for the Phonograph, I will send you the agate stylus and silver plate, at my expense, as soon as the latter is ready.

Very truly yours,

J. W. I.

May 20th, 1884.

C. E. Sjoirs, Esq.

21 Murray Street, City.

Dear Sir:-

Will you please send me up some authorities on drawing
copper and iron wire, at your earliest convenience.

Very truly yours,

Jak
J

31
May 31, 1894.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

We are in receipt of your favor of the 27th. inst.,
in reference to brushholders sent with the 50 light dynamos that
worked the stock printers at Philadelphia. Your communication
has been referred to the manager of the Edison Machine Works,
from whom it will receive attention.

Yours truly,

T. A. Edison Constn. Dept.

By

SA

May 31st, 1894.

Charles Batchelor, Esq.

City.

Dear Sir:-

We beg to enclose herewith a letter from our Chief
Electrical Engineer embodying a suggestion in regard to brush-
holders. Kindly return it to our Bureau.

Yours truly,

T. A. Edison Constr. Dept.

By



Enclosure, b.

May 31st, 1884,

W. H. Dwelloy, Esq. Treas.

Fall River, Mass.

Dear Sir:-

Mr. Andrews has referred to us a letter which he received from you under date of May 20th., in regard to the wages of Sheldon, the engineer who was employed by Mr. Rich.

We have conversed with Mr. Rich on this subject and he states that the terms of Sheldon's engagement were that he was to do whatever work was required of him irrespective of the time consumed during the execution of such work, and his rate was to be \$35. per month.

These engineers whom we employ at the central stations are never hired by the hour or day.

A great deal of the work which Sheldon did in connection with the Fall River station was unauthorized by Mr. Rich, and he employed his time in making many unnecessary changes, which would have saved money had they not been performed. We consider that he has been paid all that is due him, and we are therefore unwilling to make him any further allowance.

Yours truly,

T. A. Edison Constn. Dept.

By



May 21st, 1884.

N. S. Keith, Esq.

American Institute of Electrical Engineers,

9 Murray Street, City.

Dear Sir:-

I beg to acknowledge receipt of your communication
of the 27th. inst., notifying me of my appointment for three years
as one of the Vice Presidents of the American Institute of Elec-
trical Engineers.

Very truly yours,

Wm J

"Colon"

No. 8.

May 21st. 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

I beg to confirm my cable to you of yesterday's date as follows:-

"Annoy Basin Twain"

which reads as follows:-

"500, 12,000; 600, 12,500."

and from which you will understand that the 500 light plant for Chillan, Chili, including fixtures and wire for house work, amounts to \$12,000., and the 600 light estimate amounts to \$12,500.

Under the same cover I send you my estimate No. 149 for the supply of material for the installation of an Edison Electric Light Plant of 500 lights capacity at Chillan, Chili, the same amounting to \$11,060.91, and annexed to it is a schedule of the cost of material for use in connection with this plant for house work, this amounting to \$1,003.54. The 600 light estimate amounts to \$11,227.86, to which of course must be added the material for house wiring, as per schedule annexed, making the total cost of same \$12,231.40. This increase is caused by our supplying you with a boiler of 80 Horse Power capacity instead of 51 Horse Power, as in the 500 light estimate. The engine in this latter estimate,

also the dynamos, are of sufficient capacity to run 800 lights, and it is therefore unnecessary, in order to obtain that number, to change anything in the 500 light estimate, excepting the boiler. I also send you under same cover maps of Chilian, with the district marked off, there being 550 lights covered by the proposed course of conductors.

our
In regard to estimate for house wiring material, which amounts to \$1,008.54, I would state that I will allow you personally the sum of \$80.28 on this amount, which is forty per cent of twenty five per cent on our selling price. I am enabled to do this from the fact that the said material the Edison Electric Light Company do not get a percentage, and I therefore share the full amount of the profits with you.

Trusting these papers will reach you safely and be satisfactory, I am,

Very truly yours,

W. E. Edison

May 31st, 1884.

W. A. Staggs, Esq.

32 Beaver Street, City.

Dear Sir:-

Replying to your letter of the 27th. inst., I beg to say that there is very little manganese used in this country for battery purposes. Two tons yearly will cover the consumption,

Very truly yours,

Wm
9

June 2nd, 1884.

John Fruesi, Esq.

21 Bridge Street,

Brooklyn, N.Y.

Dear Sir:

We enclose a letter from Mr. Garrison in reference to the Brockton system, which please return after perusal.

We have told Mr. Garrison that if any defective tubes were supplied by you, you will be willing to take them back and replace them, and under like conditions you would bear a portion of the expense which the Brockton Co. are being put to in finding "bugs."

Yours truly,

T. A. Edison Constn. Dept.

By



Enclosure, a.

June 2nd, 1884.

W. J. Garrison, Esq. Treas.

18 Matthews Street,

Boston, Mass.

My Dear Mr Garrison:-

I am in receipt of your letter of the 1st. inst., and I regret very much that you should have such trouble with the Brockton system. I feel satisfied, however, that you will soon expel all the "bugs."

The Tube Company will be quite willing to take back any defective tubes that may have been introduced into the system by them, and will under like conditions agree to bear a portion of the expense.

I shall be glad to hear from you further in reference to this matter.

Very truly yours,

T. A. Edison Constn. Dept.

By



June 2nd, 1884.

M. G. Helknap, Esq. Treas.

Newburgh, N. Y.

Dear Sir:-

Replying to your letter of the 23rd. ulto. we beg to say that we have charged you for covered wire up to No. 14, 30³/₄ cents per pound, and for Nos. 16 and 18, 34⁷/₁₀ cents per pound, paragon wire we have billed at 40¹⁰/₁₀ cents per pound.

Your letter of May 31st., inquiring whether the prices we allow you for certain material, which you have returned, are the same as those charged you, came to hand to-day, and in reply we would say that those are not the prices at which they were billed, but we have allowed exactly what we can get for the material when returning it to Messrs. Bergmann & Co.. You of course understand that we cannot undertake ourselves, under the present circumstances, to carry such material as this on hand, and we are therefore obliged to arrange for its disposition before we receive it from you. This we have done, as you will observe by reference to Messrs. Bergmann & Co's letter enclosed with our communication of the 20th. May.

We will write you to-morrow and give you reference to the bills upon which appear the articles that you desire to return.

Yours truly,

J. J. J.

June 2nd, 1884.

Charles Batchelor, Esq.

City.

Dear Sir:-

Enclosed we beg to hand you a communication from our Chief Electrical Engineer, Mr. Andrews, in regard to the "Y" dynamos sent to Circleville, one of which is fitted with a paper pulley and the other with an iron pulley.

We think you had better ship a paper pulley to Circleville at once to replace the iron one.

Yours truly,

T. A. Edison Constn. Dept.

By



Enclosure, b.

June 2nd, 1884.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

Replying to your letter of May 31st., I beg to say that you cannot determine which of the feeders and equalizers should be used in connection with, until a heavy load is put on. Put an equalizer in either of the feeders and regulate the station pressure on one having no equalizer. When you are about loaded you can then tell which feeder should have the equalizer.

Yours truly,

T. A. Edison Constn. Dept.

By



June 2nd, 1884.

A. Stuart, Esq. Secy.

Cincinnati, Ohio.

Dear Sir:-

We send you by to-night's mail, under separate cover,
building specification and specification of street installation,
together with chart of district and building plan for Troy, Ohio.

Yours truly,

T. A. Edison Constn. Dept.

By



Enclosure.

June 3rd, 1914.

H. Ward Loopard, Esq.

Middletown, Ohio.

Dear Sir:-

I have your favor of the 29th. ult., for which I beg to thank you.

Mr. Stuart wrote me asking me if I would be willing for him to make proposals to you, with a view to your going into a more extended field in connection with central station work, and I replied that I saw no objection whatever, and if you should come to some ~~arr~~ arrangement with Mr. Stuart, I shall be only too happy to assist you in your work with such advice as you may need.

Very truly yours,

J. A. C.

June 3rd, 1884.

W. H. Dwelley, Jr. Esq. Treas.

Fall River, Mass.

Dear Sir:-

Referring to your favor of the 22nd. May, there has doubtless been an error in erecting a stack only sufficiently large enough for your present boilers, instead of one to take care of 400 horse power, as promised by us.

We shall be glad to make you an allowance for this, as the fault is undoubtedly ours.

But with relation to your claim that you have trouble in getting steam for your present plant, we are still of the opinion originally expressed, and emphasized by Messrs. Babcock & Wilcox, namely, that your stack is quite large enough, and that what you want is a blower, such as we have sent you, in order to get the best possible results.

We are anxious to have this matter settled at the earliest possible moment, and shall therefore be glad to hear from you as to what you think will be a fair allowance for the error in the stack.

Very truly yours,
T. A. Edison Constn. Dept.
By



June 3rd, 1884.

Thomas M. Righter, Esq. Treas.

Mt. Carmel, Penna.

Dear Sir:-

We have your favor of the 31st. ulto., enclosing check for \$1,800., being amount due from you, receipt for which please find herewith.

We shall be glad to have from you an exact statement of the amount which you say Mr Rich authorized payment for, as we would like to agree balances with you, at your earliest convenience.

Yours truly,

T. A. Edison Constn. Dept.

By



Enclosure.

June 3rd, 1884.

Charles P. Price, Esq., Treas.

New Bedford, Mass.

Dear Sir:-

We have your favor of the 2nd, inst.

The experiment you refer to is being tried in Ohio.

We have written for information and will send same to you at the earliest possible moment.

With regard to the new estimate you require for tubing, we will have an estimate worked out and sent you as soon as it is ready.

Yours truly,

T. A. Edison Constn, Dept.

By



June 3rd, 1884.

Mrs. Emily Williams,

12 Rue Poisson,

Paris, France.

Madam:-

I have your favor of the 19th, May, and in reply regret to state that at this moment I have no vacancies whatever on my staff.

It is possible, however, that before the end of this year I might be able to start your son in some department of our business.

The best way for you to do would be to write me again sometime in the Autumn, if you have not at that time arranged to send him anywhere else.

We are not in the habit of taking a premium for such instruction as it would be necessary for him to have.

Very truly yours,

J. W. J.

June 3rd, 1884.

A. Stuart, Esq, Secty,
Cincinnati, Ohio.

Dear Sir:-

I am much obliged to you for your favor of the 29th. ulto., and for the explanations you give therein.

With relation to the trouble at Middletown with the mains, I have had this matter carefully looked into, and I find that an excess of 325 lbs. of copper has been put in there, that several alterations were made as to exactly where the mains should be run, and that a gentleman, who called himself "Superintendent of Construction", said he would take upon himself the responsibility for these alterations. I afterwards learned that this gentleman was Mr. Story, and that he insisted to our line constructor that the alterations, he wanted, should be made. The excess of copper, which has been put in, will be taken care of by the operation of the feeder equalizers, and I do not anticipate that any fresh trouble will develop itself at Middletown, as you suppose.

I am sure that I would much prefer that in every case where you have got complaints to make, that you would make them right out, and let us deal with them on the spot, notwithstanding they might lead to a very long discussion, as it is very unpleasant

A. Stuart, 2.

June 3rd, 1884.

2

to have gentlemen connected with our business turn on us and state that it is impossible to deal with us, and quote you as an authority, although, personally, I know that you have no such feeling towards us. As far as I can see, the main difficulties that have arisen have been in connection with the class of boilers ^{and engines} that should be used, and on this point I do not doubt but what Mr. Edison would be supported by the Light Company, were they appealed to.

Very truly yours,



June 3rd, 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

Will you kindly give us some idea of what your experience has been in connection with the free wiring at Piqua? Can you tell us what the expense has been to the Piqua Company, whether it has greatly increased the number of orders for light, and in fact any information that you think would be useful to us in this connection, and by so doing you will greatly oblige,

Very truly yours,

T. A. Edison Constn. Dept.

By



June 3rd, 1884.

Prof. William A. Anthony,

Department of Physics,

Cornell University,

Ithaca, N.Y.

Dear Sir:-

I have your favor of the 2nd, inst., and regret to say that I know of no vacancies in connection with our staff at this moment, as business is rather dull just now. If it should pick up again, as it probably will before the Winter, I shall then doubtless be able to do something for the students you refer to.

Very truly yours,

Jan
3

June 4th, 1884.

H. S. Reynolds, M.D.

Gerro Gerdo,

Columbus Co. N. C.

Dear Sir:-

Referring to your favor of June 1st., I beg to inform you that when we have vacancies we are in the habit of taking into our establishments, without wages, students anxious to learn our business. At this writing, however, we have no vacancies.

Very truly yours,

Wal

June 4th, 1884.

Messrs. Borgmann & Co.

292 Avenue B,

City.

Dear Sirs:-

Referring to the enclosed, will you please let me have the particulars, with the date, on which your Mr. Klein conceived the invention which is in interference. I will have my data looked up and compare notes, and, if you are ahead of me, the best way would be to let the matter drop.

Very truly yours,

J. A. B.

Enclosure, d.

June 4th, 1884.

Samuel Edison, Esq.

Fort Gratiot, Mich.

Dear Mr. Edison:-

T. A. E. has requested me to send you four checks, for \$50, each, which please find enclosed. You will notice that one is dated to-day, another on the 11th., another on the 17th, and another on the 23rd. I trust these will answer your purpose.

T. A. E. is in very good health, and so is his family. They have left the Glarendon Hotel and are living again at 25 Gramercy Park.

I presume you have heard of the death of old Mr. Stilwell, Mrs. Edison's father.

I was very sorry I could not be here to see you, when you came on last Winter. When are you coming on again?

With my hearty congratulations at your being eighty years of age and all sound, believe me,

Very sincerely yours,



June 4th, 1884.

W. L. Garrison, Esq. Treas.
Boston, Mass.

Dear Sir:-

Referring to your favor of May 23rd., which has remained unanswered, owing to the necessity of completing the new map of Brockton, which we send you by same post under separate cover, we shall be glad if you can indicate to us on the map the probable position and number of future lights that you think you are liable to get at Brockton, as explained to you when you were here sometime back. If you can give us some idea of what you expect in the future, and will plot same on the map, we will have calculations made as to your conductors, immediately we can hear from you.

You should get ten lamps of ten candle power each per indicated horse power. You seem to come very near this, from your tests.

Can you not find out absolutely whether your indicator on the neutral wire is right by comparing with the other indicators you have on the other wires, as you have three now at Brockton.

You have doubtless ere this received the Pilson Lamps from Bergmann & Co.

Very truly yours,



June 4th, 1884.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

In reply to your letter of the 1st, inst, we beg to say that we send you to-night, under separate cover, chart of the district of Circleville, giving the information you ask for in regard to safety catches.

Yours truly,

T. A. Edison Constn. Dept.

By



June 4th, 1884.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

Will you please inform us by return mail whether you cannot arrange to go to Williamsport at an earlier date than the 10th. prox. It is of considerable importance that you should go there in order to start them with their work, as they want your advice before they proceed to put up the building. I may remark that according to our agreement with the Ohio Installation Co., the Circleville plant should be in operation by the 10th. of this month. Will it be possible to have the work finished by that date?

Yours truly,

T. A. Edison Constn. Dept.

By

T. A. Edison

June 4th, 1884.

P. B. Shaw, Esq.

Williamsport, Penna.

Dear Sir:-

Major Eaton has conferred with us with relation to our sending Mr. Andrews to Williamsport, for consultation prior to your work there being started.

He is now in Circleville, and writes us that it will be impossible for him to leave there before the 10th. prox., but we have written him, explaining the importance of his going to Williamsport, and we are in hopes that he will be able to go there at an earlier date. Meantime we have suggested that Mr. Conant should be sent to Williamsport to confer with your Committee. Before he leaves here we can post him thoroughly as to the general arrangement of your station, and, with Mr. Andrews to fall back on for advice, in case he needs it, we think that Mr. Conant would answer your purpose.

He could at the same time attend to the Ashland matter.

Major Eaton will doubtless have written you in relation to those matters, but we thought it as well to write some explanation to supplement what he may have to say on the question.

Very truly yours,

J. A. 9

June 5th, 1884.

W. H. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

You may remember when you were here I had considerable talk with you in relation to closing up all your work in connection with the various stations.

I am very anxious to have this done at the earliest possible moment, and to dispense with as many of our men as we possibly can.

Will you please advise me as to the condition of the Ohio plants, and also as to the Pennsylvania plants. That is, more especially, with relation to the installation of feeder equalizers, which, as I understand it, forms practically the only work which you have to do in Ohio, except the finishing of the Circleville work, on which you are now engaged.

You will appreciate my anxiety in relation to this matter when I tell you that every cent we are paying for experts' expenses is a dead loss to us, without any possible chance of getting it back again.

Very truly yours,

58

June 5th, 1884.

Personal.

George H. Bliss, Esq.

Chicago, Ills.

Dear Sir:-

I have your favor of the 28th. May, and have perused the contents of same with very great care.

I am much obliged to you for the suggestions you make, and I trust that in a very short time matters will be so arranged as to be satisfactory to all, and that I shall be enabled to push ahead vigorously and deal with the business, which I am sure is only waiting to be canvassed for.

Very truly yours,

Jack

June 5th, 1884.

George H. Stout, Esq.

249 West 38th. Street; City.

Dear Sir:-

Referring to your favor of the 1st. inst., which came to hand during my absence from the City, I shall be glad if you will do me the favor of giving me a call the next time you are passing this way, as I wish to have a talk with you in relation to the Peruvian matter.

If you are unable to call during the day, and can find it convenient to be here to-morrow (Friday) evening any time after eight o'clock, I shall be happy to see you.

Very truly yours,



Per S.S. "Alaska."

June 6th, 1884.

Colonel George E. Gouraud,
54 Walbrook,
London, E.C. England.

My Dear Colonel:-

You will doubtless remember when I was in London we had some talk with relation to the future conduct of the Indian & Colonial business. Amongst other schemes it was suggested that the organization in London should be reduced to a mere nominal one, and Mr. Edison was to be asked to act as an agent for the Indian & Colonial Company's territory.

At this moment Mr. Edison (under an arrangement with the Edison Electric Light Company) is proceeding to actively push the lighting business in Mexico, Central America and South America, and it has struck me that we might with great advantage work the Indian & Colonial business in conjunction with this department of our office.

Mr. Edison has a great idea of the value of Australia as a field for lighting, and I cannot conceive that the Australian business can be near so difficult to handle as our South America is naturally owing to the difference of language etc.

I shall be glad to hear from you as to this matter, as I know that you are especially anxious that something should be done, as you have yourself very large interests in the Indian &

G. E. Gouraud, 2.

June 6th, 1894.

Colonial Company, ^{and} it seems a pity that what money they have got
should be fritted away on Directors' fees and no actual business
done, and consequently no return to the stockholders.

Yours very truly,



"Alaska"

June 6th, 1884.

Colonel George E. Gouraud,

54 Walbrook,

London, E. C. England.

My Dear Colonel:-

I have your favor of the 24th. ult., and am obliged for the information contained therein.

In relation to the Indian & Colonial business, I shall be glad if you will send me detailed particulars as to the result of the meeting, and also some idea as to what the Indian & Colonial Company propose to do with relation to pushing their business.

Very truly yours,



"Alaska"

June 6th. 1884.

Edison & Swan United Electric Light Co., Limited,

57 Holborn Viaduct,

London, E.C. England.

Dear Sirs:-

I beg to enclose you herewith statement of account, showing balance against you of \$4,155.38

The two bills attached to the statement refer to work done on the steamship "Oregon", under the superintendence of Mr. E. H. Johnson, who, together with myself, was requested to attend to the plant on the "Oregon", on the arrival of that steamer here when it made its first trip. This account has been standing a very considerable time. It was originally put into the hands of Mr. Johnson to collect, and he forwarded it to your office, but not having received a remittance he has turned the matter over to me. Please pass the amounts to my credit in account current, and remit for same the next time you are sending me money.

Very truly yours,



Enclosures.

June 7th, 1884.

Armington & Sains Co.,

Providence, R.I.

Dear Sirs:-

We handed Mr Moore a letter we received from Mr Conant as to the Newburgh engine. Mr Moore, after his visit to Newburgh, reported that the engine was in thoroughly good condition whereas the local people and our own men report that it is not. Mr Moore said he would have a man sent to Newburgh and have the engine fixed up.

Inasmuch as this trouble with the engine is the only defect we have in connection with our Newburgh installation, we should feel very much obliged if you would pay particular attention to having same remedied immediately.

Yours truly,

T. A. Edison Constn. Dept.

By



June 7th, 1884.

W. L. Garrison, Esq. Treas.

Boston, Mass.

Dear Sir:-

I have your favor of the 5th, June, with relation to the conductors, and I have already written you a letter enclosing a letter from the Electric Tube Co.

I do not understand at all why you cannot get all the power that you will ever require for 1000 lights out of your engines if you carry 120 lbs. pressure and run your engines at 250 revolutions, this being the pressure and speed at which we run in all our stations. If you will refer to Messrs. Arnington & Sims catalogue you will find that with only 100 lbs. pressure, running at 250 revolutions, you can get 144 horse power out of your engine, cutting off at quarter stroke, and if you run at 120 lbs. pressure, you can get 177 horse power out of the engine.

I want you to clearly understand that I am perfectly prepared to stand by my contract with you, and will hold myself responsible if your engines and dynamos will not carry exactly the load which the contract provides for.

Will you please let me know the exact speed at which you are running your engine, and also the boiler pressure you ordinarily carry, and the candle power at which you run your lamps,

W. J. Garrison, 2.

June 7th, 1884.

2

that is, do you run ten candle lamps at ten candles, or over that?

If you will give the following information to any engineer, he will inform you exactly what horse power you can get out of your engine. Speed of engine 250 revolutions, boiler pressure 120 lbs., cutting off at quarter stroke.

I may mention that I have indicated 14 ¹/₂ x 13 Lawrence engines at Goerck Street, which have developed 348 horse power.

Very truly yours,

J. A. B.

June 7th. 1884.

Mr. S. Loith, Esq. Secy.

American Institute of Electrical Engineers,
9 Murray Street, City.

Dear Sir:-

I have your favor of June 6th., and would be glad if you would give me some explanation as to what will be the duties of the Standing Committee on "Incandescent Lamps", and why are interested parties put on the Committee?

Very truly yours,



June 7th, 1884.

Edwin J. Houston, Esq. Electrician,
International Electrical Exhibition,
Franklin Institute,
Phila. Penna.

Dear Sir:-

I am obliged for your favor of the 3rd. inst., and beg
to thank you for the very flattering invitation contained therein.

It would be very expensive indeed for me to make an
exhibit of my inventions outside of electric lighting, but I will
consider the matter and advise you later.

Very truly yours,

J. H.
J

No. 9.

June 9th, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

Agreeably to my promise contained in my letter of May 10th., I beg to advise you that I have sent by this mail, under separate cover, officially certified copy of the decision in the German patent case, and also a translation of same.

Hoping that this will be of assistance to you, I remain,

Very truly yours,



June 9th, 1884.

Charles T. Hughes, Esq.

Morgan House,

Poughkeepsie, N.Y.

Dear Sir:-

I have your favor of the 4th. inst., and am glad to hear of the prospects of your doing isolated business in your section.

The canvass of New Brunswick has been completed, and our men have been working on it right along, with a view to pushing the matter forward as quickly as possible. I expect the estimate will be completed by Wednesday, the 11th. inst.

Very truly yours,

A handwritten signature in dark ink, appearing to be the initials 'S.H.' or similar, written in a cursive style.

June 9th, 1884.

Messrs. Borgmann & Co.

City.

Dear Sirs:-

We beg to enclose you herewith letter received from Mr. Andrews as to dispensing with the thermo-lamps in meters to be used in village plants where it is not proposed to run during the day.

Will you please figure on the matter, and inform us what reduction can be made, if any, in the price of meters, as spoken of by Mr. Andrews.

Yours truly,

T. A. Edison Constn. Dept.

By



Enclosure.

June 9th, 1884.

D. D. Cono, Esq.

1305 F Street,

Washington, D. C.

Dear Sir:-

I am obliged to you for your favor of the 7th, June.

I think the better way would be for you to call and have an interview with either myself or my private secretary, Mr. Insull, the next time you are in New York, and we could then better arrange a basis for you to enter into our South American business.

I do not think it would be possible for you to operate both Brazil and Mexico, although if you have immediate business you could influence for both these countries I could of course be able to pay you a commission.

Will you please advise me at your early convenience whether it would be practicable for you to come on and see me, and if so, when?

Very truly yours,



June 8th, 1884.

Henry Bentley, Esq.

Phila. Penna.

Dear Sir:-

I am extremely obliged to you for your favor of the 6th. inst., enclosing copy of your report on the working of the dynamo current.

I agree with you that your report ought to be satisfactory to anybody.

I am going to paint your name in red on the bottom of all my machines that are used for this class of work, as if I do so I feel confident that they will be operated successfully!!

Very truly yours,

T. A. Edison

June 9th, 1884.

S. B. Eaton, Esq. President,
Edison Electric Light Co.

City.

Dear Sir:-

As you are aware there was a very great necessity of having a bill passed through the New Jersey Legislature permitting Municipalities to grant the right of way for electric light companies.

It was quite impossible for us to do any central station business in New Jersey until this bill was passed.

After the failure of the Gramme Company to get a bill through, I had a bill drawn up, and employed Mr. J. F. Fisher to get the bill through. You undertook to be responsible for \$1,000. on behalf of the Light Co. in connection with this matter. In addition to this amount there were Mr. Fisher's personal expenses, amounting to \$753., which I have paid out of my own pocket.

I shall be glad if you will bring this matter before the next meeting of the Executive Committee, or Board, of the Light Co, with a view to their reimbursing me this amount.

I annex a memorandum of amounts paid to Mr. Fisher, duly certified by him.

Very truly yours,

J. B. Eaton

June 9th, 1884.

Charles P. Fricke, Esq., Treas.

New Bedford, Mass.

Dear Sir:-

Again referring to your letter of the 2nd. inst., asking for information as to free wiring, I beg to give you below extract from a letter received by me this morning from Mr. A. Stuart, the Secretary of the Ohio Edison Electric Installation Co..

Mr. Stuart is now trying this experiment, and, as you will see, he has not yet got any absolute data on the subject. I imagine, however, from his letter, that he has not yet succeeded in doing it on a paying basis.

In reply to your letter of June 3rd., as to our experience in the manner in which the light is put in at Piqua, allow me to say that we have hardly gone far enough to give an opinion. We see the success of it so far that it puts the light in just as rapidly as we can wire the houses up. They have applications now for about 800 lights. Counting what they have put in and what they have yet to put in, they have got about 400 burning. Of course they refuse to wire up anything but what the people propose to burn, and they have refused a great many applications where they did not think the light would have a good average burning. It has a ton-

C.P. p.100, 2.

June 9th, 1884.

2

dency, I think, to enthuse the people much more on the light, and it gets it in at once, and the money of course is returned at once by consumption of light, instead of running the station three or four months on a very light consumption, and wasting the balance. We intend to test the plan pretty thoroughly before we give it up. As to what it costs to do so, we have not gone far enough to give you any approximate estimate as yet. I will, however, keep track of the whole affair and as soon as I can I will give you some condensed practical information how it seems to operate, etc., the cost etc.

Yours truly,

(Signed) A. Stuart,

Secty.*

*Yours
A
Stuart*

June 10th, 1884.

M. C. Belknap, Esq. Secty. & Treas.

Newburgh, N.Y.

Dear Sir:-

We have your favor of the 9th. inst., and in reply beg to state that Mr. Sims, of the Arrington & Sims Co., who was in our office this morning, informed us that an expert would leave his shop to-day for Newburgh, with a view to fixing up your engine.

We are very sorry that you should have had any trouble in connection with this matter, but you appreciate that it was entirely beyond our control, and that we were compelled to fall back on the engine builders to get the engine fixed. They have shown some tardiness in responding to our request, and hence the delay.

Yours truly,

T. A. Edison Constn. Dept.

By



June 10th, 1864

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have your favor of the 7th. inst., and regret to have to state that it is quite impossible for me to go to Circleville. I never had more to attend to than at the present time, and I am compelled to be at my office both day and night. Besides this, I have some very important negotiations on hand which absolutely preclude me from leaving the City, and I must therefore ask you to excuse me.

Major Eaton informs me that he is going to Circleville on Friday night.

Regretting my inability to accompany him, and wishing you every success at your meeting there, I remain,

Very truly yours,

Lae

June 10th, 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I have your favor of the 6th. inst.

I shall be very glad if you will look into the matter of Mr. Story's interfering in the Middletown pole lines. I could not understand the matter at the time but thought it best to say nothing whatever about it.

My only reason in writing you in connection with the remarks imputed to you was to have a clear understanding with relation to the matter. Your explanations have been perfectly satisfactory, and all I wish is that everybody would be as candid, as you are, in their business dealings. It is hardly necessary for me to say that if at any time I can assist you, I shall be only too happy to do so. I think you understand this thoroughly, both with relation to Mr. Edison and myself.

I was glad to read that long article in the Toledo paper, which you sent me the other day.

Very truly yours,



Personal.

June 10th, 1884.

J. F. Bailey, Esq.

Paris, France.

My Dear Mr. Bailey:-

I notice in a recent letter of yours to Mr. Edison that you again refer to the matter of the report I made to him upon my return from Paris, with reference to the statement made to me by Mr. Forges whilst I was in Nico.

I write again to explain to you that my position at that time was a very delicate one. It might have been a mistaken judgement on my part, but I thought it better not to say anything to you about the matter. In fact I felt that I was in such a very delicate position that it was impossible for me to have done so, even if I had thought it advisable. However, the matter is now all over and I presume the best way is to let it drop, but I should not like to have the idea that you feel at all badly towards me, owing to my course in connection with it.

Very truly yours,



Bohnia

Personal.

June 10th, 1884.

J. F. Bailey, Esq.

Paris, France.

Dear Sir:-

I have your letter without date, but which commences with the following:-

"I have written a letter the 29th. April and another the 13th. May to Major Eaton".

I referred the letter to Mr. Batchelor, and he replied that it was not necessary for me to telegraph you, as you would have received Mr. Batchelor's letter telling you that we should want you to represent ~~xx~~ our side of the house in Paris.

Very truly yours,

J. F. Bailey
J

June 10th. 4

Charles Batchelor, Esq. General Manager,
104 Goerck Street, City.

Dear Sir:-

Enclosed herewith please find copy of agreement, dated
3rd. June, 1884, between the Edison Machine Works and H. M. Livoz.

Will you please have same put in the safe in your office.

Very truly yours,
Edison Machine Works,



Secty. & Treas.

June 10th, 1884.

Messrs. Bergmann & Co.

City.

Dear Sirs:-

I return you herewith the papers in the interference
on "Improvements in Reflectors." You will notice Mr. Dyer's
remarks on the foot of my note to him.

Very truly yours,

J. H. J.

Enclosure.

CroscantCity

No. 10.

June 10th, 1884.

W. N. Stewart, Esq.

Santiago, Chili.

Dear Sir:-

I find that I have overlooked your favor of April 6th., and I thought I had answered all your letters, but this one seems to have been mislaid.

I do not think that Wirt would be a good man for the work in connection with village plants. We have men whose experience is very much wider, and who, I think, would be very much more useful to you. However, of course, I wish, in sending you anybody, to send a man who would be entirely in accord with you, and one whom we would have perfect confidence in. We have quite a number of new men who are better posted on village plant work than some of the older men in our business.

Very truly yours,

Tak.
l

June 10th, 1884.

Edward F. Thompson, Esq.

325 North Broad Street,

Elizabeth, N.J.

Dear Sir:-

I have your favor of the 10th. inst., and in reply regret to state that I have no appointment vacant at the present which I can offer you. Should any vacancy on my staff occur, I will advise you.

Very truly yours,

Jak
J

June 10th, 1884.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

We beg to enclose you herewith meter report received from Mr. Lyman, of Piqua.

Without any more explanation than this report gives, there certainly seems to be something rotten in the meter business. With an equivalent of 850 lamps of ten candle power each they only take in 80%. This is less than three quarters of an hour per lamp per day connected. Perhaps the meters have not been installed for the full month, or if they have there must have been a reversion of the main current. The whole thing is so abnormal that I think it should be investigated.

Yours truly,

T. A. Edison Constn. Dept.

By 

June 10th, 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

I notice by the meter report, which I have just received from Piqua, that they are only charging one cent per hour per ten candle lamp there. At Newburgh, where they have twenty seven candle gas to compete with, our local company is getting one and an eighth cents.

Is there not some mistake in connection with this matter?

Yours truly,

T. A. Edison Constn. Dept.

By



June 11th, 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

We have wired you two or three times with relation to the final payment on Piqua.

We should be very much obliged if you could send us a New York exchange for the amount of same by return mail, as we rely on getting the money for use by Saturday morning.

We would draw your attention to the fact that on the first of the month the debit against you amounted to \$7,904.64

Yours truly,

T. A. Edison Constn. Dept.

By



June 11th, 1884.

A. Stuart, Esq. Secty.
Cincinnati, Ohio.

Dear Sir:-

You wrote me some days ago about the accounts at
Piqua.

I find that all we owe there is a little over \$1,000.,
and that at Middletown we owe about \$1,200.

Now if you will on ly send us a remittance in settle-
ment of our ~~part~~ ~~of~~ ~~the~~ ~~account~~, we will pay up every cent we owe
in Ohio. It is rather hard on us for you to complain that we do
not pay our bills and at the same time you delay making remittances
to us.

Yours truly,

T. A. Edison Constn. Dept.

By

June 11th, 1884.

J. P. Smith, Esq. Pres.

Circleville, Ohio.

Dear Sir:-

I am very much obliged to you for the flattering invitation contained in your telegram, which is just at hand.

It is absolutely impossible for me to visit Circleville at the present time, inasmuch as I have so many things that require my attention here, that I am compelled to be at my office almost night and day, but I can assure that otherwise it would afford me unqualified pleasure to visit your town on the inauguration of my system of electric lighting there.

Trusting that your Company will meet with perfect success, I remain,

Very truly yours,



June 11th, 1884.

George B. Scott, Esq.

Superintendent's Office,

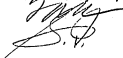
Gold & Stock Telegraph Co., City.

Scott:-

I have your favor of the 10th. inst.

I will see if I cannot find out from Europe exactly what your son is doing, and will advise you at the earliest possible moment.

Very truly yours,



June 11th, 1884

Louis Rau, Esq.

Paris, France.

My Dear Mr. Rau:-

A Mr. George S. Scott, who used to be in the telephone business in Milan, ~~xxx~~ was, I believe, afterwards employed by the Societe Electrique Edison and sent to Amsterdam, Holland,

His people here are very anxious to hear something about him. Can you do me the very great favor of making inquiries as to what the young man is doing and where he is at present located. I would prefer that you should do this without letting Scott know anything about it.

I would not trouble you in this matter were it not for the young man's father, whom I am very anxious to oblige, by supplying him with the information he desires.

Trusting that at some future time I may be able to reciprocate, with kind regards, I remain,

Very truly yours,



June 11th, 1884.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

Referring to your favor of the 5th. inst., as to your work at Circleville, we shall be glad to have your ground plan of the station at your convenience.

You should not leave Circleville until the plant is started and running.

Mr Edison is unable to get and see the plant started.

Yours truly,

T. A. Edison Constn. Dept.

By

A. J. J.

June 11th, 1884.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

Referring to your favor of the 5th. inst., We do not wish to keep Mr. Lyman one day longer than it is absolutely necessary. Doubleday is prepared to take him immediately, and unless you think it necessary for him to remain at Piqua, please arrange for him to leave there right away.

Yours truly,

T. A. Edison Constn. Dept.



June 13th, 1884.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

Immediately the Circleville plants starts we are entitled to fifty per cent of the amount of our contract.

Will you please see Mr. Stuart and arrange for us to get this money promptly, and by doing so you will confer a great favor upon us.

Yours truly,

T. A. Edison Constn. Dept.

By



June 13th, 1884.

W. S. Andrews, Esq.

Circleville, Ohio.

Dear Sir:-

We have your favor of the 6th. inst., as to the work in the various stations.

Please let us know as early as possible whether Mr. Leonard has actually fitted up the feeder equalizers at Middletown, also immediately Mr. Beves gets them fixed up at Tiffin.

I judge from your remark about Piqua that the feeder equalizers must have been put up there.

Mr. Conant has left Columbus and has nominally left our employ. He is going to put up the Ashland station. We shall in all probability require you to give him some assistance, but of this we will communicate with you later.

Yours truly,

T. A. Edison Constn. Dept.

By



June 11th, 1884.

W. J. Garrison, Esq. Trans.

Boston, Mass.

Dear Sir:-

We have your favor of the 10th. inst., and in reply beg to state that your explanation makes it perfectly clear to me that you have reached the limits of your feeders, as I predicted you would.

What is now required is a new determination, for which we are awaiting data, so that we can figure on the necessary additions to the feeders.

The dynamos are so made that all the blocks, but one or two, should be out when the feeders have their calculated number of lamps. If you continue to add lamps you will not have pressure enough, owing to overloading your feeders, although the dynamos and engine may be working far under their lamp capacity.

When will you let us have this data as to your probable future customers?

With relation to your boiler pressure, the Babcock & Wilcox boilers, which we installed in your station, are built to run with ease at 120 lbs. pressure. We carry 125 lbs. pressure in the central station down town all the time.

Yours truly,

J. A. G. J.

June 11th, 1884.

A. Stuart, Esq. Secty.

Cincinnati, Ohio.

Dear Sir:-

Have you done anything with relation to Leonard?

You wrote us some time back that you thought of giving him work in connection with your business. Please let us know what you have done, or what you propose to do in this matter, as we are simply carrying Mr. Leonard just now, at Middletown, awaiting your decision in the matter.

Yours truly,

T. A. Edison Constn. Dept.

By



June 12th, 1884.

Armington & Sims Co.

Providence, R. I.

Dear Sirs:-

We have finally arranged a basis of settlement with the Shamokin Company. They compel us to take back the two small engines, because they state that they ~~were~~ ^{were} not ^{covered} gotten, and Mr. Moore, on behalf of your Company, gave them his word that he would replace the engines if that were the case.

We have got to put in a 14¹/₂ x 18 engine and take back the two 8¹/₂ x 18 engines they now have.

We think that you should give us credit us for the two 8¹/₂ x 10 engines on this transaction, inasmuch as the trouble is one over which we could hardly be said to have control.

We are anxious to have the new engine as early as possible, and shall therefore be glad to have your views on the subject by return mail.

Yours truly,

T. A. Edison Constn. Dept.

By



June 24th, 1884.

S. B. Eaton, Esq.

Dear Sir:-

I beg to inform you that you were elected a Director of the Edison Electric Light Company of Europe, Limited, at the annual meeting of stockholders, held May 1884, and notify you that a meeting of the Directors so elected will be held at No. 65 Fifth Avenue, New York City, on Friday, June 27th. 3:30 P. M., for the election of officers and to discuss the present condition of the Company.

Yours truly,

Secretary.

J. A. Edison
James H. Banker
R. L. Arthur
G. W. Foster

1884
June 27th
1884
Secretary
Edison Electric Light Co.
New York City

Sept. 30th.

John H. Wood, Esq.

87 Liberty street,

City.

Dear Sir:-

Will you please take off all insurance now on furniture at 39 East 18th. street and place the amount, which I think is \$3,000, upon electrical instruments, experimental apparatus and laboratory supplies such chemicals, precious metals &c. at Dr. Wilson's laboratory, top floor, 292 to 298 Ave. B. and 17th. street, in the building of Bergmann & Co. I should like to see you about re-arranging some more of Dr. Wilson's insurances as soon as you get matters straightened out.

Very truly yours,

Samuel Insull

Nov. 5th. 1884.

Thomas A. Edison,
Atlantic City, N. J.
Director

The regular quarterly meeting of the Directors of the Edison Electric Light Company of Europe, Limited, will be held at the office of Messrs. R. F. Cutting Jr & Co., No. 18 William St., New York, on Thursday, the 6th. day of November, 1884, at 1 o'clock P. M.

Your attendance is particularly requested, as discussion is to be had, and action taken, on proposed changes in the contract with the German Edison Company, and also on proposed changes in the Contract between this Company and the Compagnie Continentale Edison of Paris.

Messrs. Bailey, Batchelor and Upton will be present by invitation.

Yours truly,

Secretary.

James
Nov 2 1884
J. P. [unclear]

Nov. 22nd. 1884.

Dear Sir:-

You are invited to attend an adjourned special meeting of the Directors of the Edison Electric Light Company of Europe Limited, which will be held at the office of R. L. Cutting, Esq. No. 10 Walling Street, New York City, on Wednesday, November 27th. 1884, at 1 o'clock P. M., for the purpose of discussing and taking action on the proposed changes in the contract with the German Company, also on the proposed fusion of the three Paris Companies.

Yours truly,

Secretary.

*Received by
Mr. R. L. Cutting
Nov 25 1884*

Major Eaton:-

(1884)

Referring to your memo of this date as to Mr. Bofinger's correspondence with the Construction Dept, the statement he makes is generally correct. As to whether one, two or three letters were not replied to, I am not quite sure which is right, I think it is two that received no reply. The reason for this I may note was that all such letters arrived while I was away. All I can say is that any letters received since my return have been promptly replied to; for instance, one came from Mr Bofinger this morning, and I immediately dictated a reply. As a rule our correspondence is executed either on the same day or the day after but I suppose things got a little behind, during my absence, which I do not at all wonder at.

S. Insull

By. H.

Dr. Hutchinson:-

Referring to the attached correspondence.

I would again call your attention to the fact that the business of the Edison Mach. Works is conducted by me in this office, and would repeat my request so often made you that you will communicate with this office in relation to all matters in connection with the Machine Works business.

Mr. Soldan's duty is to build machines for the Edison Machine Works.

With relation to your claim of \$15-. We would draw your attention to the fact that the armature was shipped by your supply Dept. at 92 Fifth Ave. and not by us. If any fault arose, it certainly is equally chargeable to the records of that Dept. as to the mistake of our shipping clerk in reading the directions as Norton & Co. instead of Newton & Co..

You say that you were obliged to keep a man there three or four days longer because of the delay. We think that we should have more detail, before deciding to accept, or reject your claim.

We would suggest that a fair settlement of the difficulty would be to charge half of the expenses to the Machine Works, as it is our opinion as stated above that the mistake is equally attributed to the supply Dept. as to ourselves.

Carl Tesell.

1883-12-26

Major Eaton:-

I give you below a few points as to our Central Stations. The letters which they came in refer to matters which I hardly think you would care to go into.

Ut. Carmel- Mr. Leonard reports that everything is working well and promised me a full report with relation to the plant in a few days.

Sunbury- Mr. Doubleday reports that he left the engines dynamos, boilers all doing good work. The stack is in very bad order owing to alterations having been made to it since we gave up the plant, he says he has drawn Mr. Harr's attention to this matter, but has been unable to get anything done at present. I shall follow this up and see that everything is put in good shape in this plant.

Shanokin- Mr. Doubleday reports that he left this A. M. . . He has given particular attention to the "A" engine in order to find out the cause of the bad governing, which the local people fail to see. He says that he has been running this engine for three weeks with good results. I think we shall hear better reports from there in a day or so.

Bellefonte- The plant there is running much better, we have everything in good shape there now.

Hazleton- I had quite a talk yesterday with Mr. Wright about Hazleton. Andrews is now there, and everything possible is being done to nurse this plant. I have telegraphed him this

1553-12-26

"2"

morning to pay particular attention to it.

Tiffin- Reports from here are very good, the lamp breakage which was so much complained of has been reduced from 51 lamps in the seven days ending Feb 12th, to 41 lamps in the nine days from 13th to 21st inclusive.

Fall River- The reports from here are very good indeed have had trouble with their underground system, but all faults have been eradicated. The new indicators which we have at Fall River are working very well.

Brockton- I had a conversation over the telephone with Jenks on Friday, he says that the plant is working very well indeed

Lawrence They had trouble to do with their engine, but the fault was purely local and nothing over which we have any control They have practically wrecked the cylinder of one of engines, which would not have occurred, but owing to the incapacity of one of their men.

1883-12

Major Eaton:-

We have started work on the extension down at Pearl Street. Will you have the contract prepared in connection with this matter, or shall I? I would like to fix it up within the next day or two.

Saml Insull.
per McC.

M. Hastings:-

Referring to the enclosed letter from the Western Edison Light Co.

We beg to give you below the rating of our various machines, for 10 candle lamps, this being the basis on which we estimate for Central Station plants. You can allow 10, 10 candle lamps to the horse power.

If this information does not answer your purpose please write us again..

<i>Q</i>	<i>50</i>	<i>50</i>
<i>R</i>	<i>50</i>	<i>100</i>
<i>J</i>	<i>100</i>	<i>200</i>
<i>D</i>	<i>200</i>	<i>400</i>
<i>Y</i>	<i>300</i>	<i>600</i>
<i>H</i>	<i>400</i>	<i>800</i>

H.

1884. Edison, T.A. - Suppliers (D-84-017)

This folder contains correspondence and other documents relating to suppliers of equipment and materials for Edison and his companies. The items filmed contain significant Edison marginalia or provide significant information about the equipment or materials being purchased.

Approximately 10 percent of the documents have been filmed. Routine correspondence has not been filmed.



REGISTERED IN GREAT BRITAIN
1884-01-28
CHILLICOTHE FOUNDRY
AND MACHINE WORKS.

(SUCCESSORS TO WELSH, SON & CO.,)

Chillicothe, O., Jan 28 1884

Mr T. A. Edison
New York

Dear Sir:

OVER

Four Mr Story of
The Ohio Edison Electric Installation Co, called
on us on Saturday last to examine in to our
new Automatic Cut-off Engines, and request-
ed us to write you in relation to the same.
We claim to have the best Auto. Cut-off that
has yet been made, and for simplicity
Economy, durability, and uniform mo-
tion cannot be excelled by any in the mar-
ket. The Engine being of the Ordinary Slide
Valve type, which is well known and which
has always given the best of satisfaction
is much preferred to the more complica-
ted style of Valve which have been put
forth. We would like very much to furnish
you an Engine, and have you give it a fair
trial, and if you will give us specifications
of the style of Engine your Light re-



1884-01-24
CHILLICOTHE FOUNDRY
AND MACHINE WORKS.

(SUCCESSORS TO WELSH, SON & CO.,)

Chillicothe, O., 18

givers would be glad to give you
our figures on the same. We make
Engines from five to one hundred
and fifty horse power, and shall be
pleased to hear from you. awaiting
your reply we are

Yours Very truly
Chillicothe Foundry & Mach. Works
G. C. Smith

We think you better inquire more closely
into the kind of Engine we use
The Buckeye Eng Co tried to build us
two Engines to suit our purpose
& both were dead failures, which they
acknowledged = out of over 20
Engine builders who have made
us Engine not one, but what was
a complete failure for the reason they
did not understand how different it was to
accomplish what we want. E. Shaw

Engines

MANUFACTURE
STEAM ENGINES,
SAW AND CRIST MILL
MACHINERY.
Prompt attention given
Night Work.

CHILLICOTHE FOUNDRY
AND MACHINE WORKS.
(SUCCESSORS TO WELSH, SON & CO.,)

Chillicothe, O., Feb 2 1884

C. A. Edison
New York

Suppose they design
300 Revolutions
per minute.
20 horse power
125 pounds
Four letter
300

the 30 left at hand in reply would
say. The class of engine we
make is far different in make
and principle than the Buckley
Engine or any other automatic
Cut-Off engine in the market
Our engine is extra ordinary sensi-
tive to different, and sudden
changes of resistance, which
I think is the great difficulty
with other engines and the
important point in the
operation of your light
Mr Story of Cincinnati Ohio
was here at our works and
we explained the principal

MANUFACTURE
STEAM ENGINES,
SAW AND CRIST MILL
MACHINERY.
Prompt attention given
Night Work.

CHILLICOTHE FOUNDRY
AND MACHINE WORKS.
(SUCCESSORS TO WELSH, SON & CO.,)

Chillicothe, O., 18.....

To him, We should be glad
to hear from you, and learn
the difficult point, in give-
ing the desired result, we
also would be pleased to
learn what style and size
are best adapted to your
requirements

Hopeing to hear more on
the subject - we are yours

Truly
Chillicothe Foundry Machinery
Hlook, Spt

Patent if then send
samples for test,

Hastings or Hudson ^{N.Y.}
May 30th 1884

Sir We are an expert in
Insulating Compounds &
have got up a new insulator
for electric wires, which is
suitable for air lines, or for
underground cables, in the form
of either trough, tube or molded work.
It has more body and
is in other respects equal to Day's
Callender's, or any other compounds
now being used, and can be
manufactured, at less than
one-fourth their cost.

We have capital, but no
special facilities for introducing
it, and are about to patent it,
and offer you a large interest
as an equivalent for bringing
it before the public.

Respectfully,
A. Schlosser (1)

To
T. A. Edison, Esq.

Warren Machine Works, Established 1860.

SPANGENBERG, PENDLETON & CO.,

MANUFACTURERS OF

CIRCULAR SAW MILLS, SPOKE LATHES

ENGINES AND GENERAL MACHINERY.

Specialty:—Direct Attachment Saw Mills.

Warren, June 28 1884

Mr. J. A. Edison,
Menlo Park,
N.J.

*Mr. Edison would not use
saw to throttle gear*

Dear Sir:

We build high speed engine mill engines (9x12 has run over at 900 revs) and believe that they might prove satisfactory for direct attachment to dynamo. We would like to have one tested, believing that, price considered, they would be preferred in many instances to high priced automatic engines. Our engines are made with plain or balanced slide valves, as may be preferred and many of them have been in use in saw mills, attached direct to axles, and run at 600 to 700 revolutions for two years, since their durability & ability to stand hard service is known. We use the

Nations governors, and while we have never had
an indicator on our engines, we judge that
they are ^{very closely governed} economical of steam for the reason
that they are used with quite small boilers
in proportion to the work they do.

The patterns we have are for 8" x 10", 9" x 12", & 11" x 13"
cylinders, the 8" x 10" is built with "Porter" type head
flats, but the others, as you will see from en-
closure, are very "homey" but they are
strong & very durable. Trade is dull in Saw
mills at this season of the year, & if there
is a demand for a really good high-speed
engine, at a fair price, we would like to
meet it. By "high-speed" we mean from 1200
to 1500 ft. piston speed per minute.

Would you be willing to give us a trial
order, on condition that we make the
price low, in consideration of having
the engine thoroughly tested & cards tested
from it at as high speed as the best
indicator would allow, & results reported
to us? We have not the means to spend to
pay for experts etc, but as you have them
already employed, we thought you might
be willing to help us out as proposed, if you
really want a fast direct attached engine
for a printing dynamo.

Yours truly,

J. C. Pundleton

Mr. J. F. Randall of Warren, O. Shows
us He is agent for Armstrong & Co.

1884. Edison, T.A. - Unsolicited Inquiries (D-84-018) [not filmed]

This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for other information about his inventions.

1884. Edison, T.A. - Visitors (D-84-019) [not filmed]

This folder contains routine letters of introduction and requests to visit Edison. Letters that received a significant response by Edison, or that were written by individuals associated with Edison, are filed in their appropriate subject folders.

1884. Electric Light - General (D-84-020)

This folder contains correspondence and other documents relating to the commercial introduction of the electric light and to technical aspects of electric lighting and power, such as the design of lamps and generators and the materials to be used as filaments.

All the documents have been filmed.

LANTERMAN BROS.

CHICAGO KNIFE WORKS

MANUFACTURERS OF AND DEALERS IN

MACHINE KNIVES

179 S. CLINTON, NEAR JACKSON ST.

1884-01-02

LANTERMAN BROS.

CHICAGO KNIFE WORKS,

MANUFACTURERS OF AND DEALERS IN

MACHINE KNIVES,

179 S. CLINTON, NEAR JACKSON ST.

1884-01-02

Chicago, _____ 1888

These A. Delian Egg
Minto Part No. 10 of a millimeter
I would measure it but
I will measure it but
I will measure it but

Dear Sir,

If you recollect where Mr. Pullman
and the conversation you had with the
engineer in regard to the model you
exhausted four of the machine
etc. Well I have just completed the
pump then broken off, and I am
happy to say that it works up to my
most sanguine expectations. It is I
think speedful and effective; as
near as I can measure by ordinary
means I get a vacuum within $\frac{1}{16}$ "
of the atmospheric barometer, and
can improve this a little I think.
Can exhaust a two gallon
receiver in about three minutes.

Should you deem this better than
those now in use, and of sufficient
importance, I should be pleased to
have you send me the instrument
(spoken of at Pullman) for measuring
vacuums very accurately. In that
case I would of course guarantee
its safe return. An expression
from you in the matter would be
thankfully received and appreciated.

Most respectfully
Yours,

W. P. Lanterman.

P.S. My address is as above
for the present. A.P.L.

D 1884 Cl. 4.

OFFICE OF

AUG. MAILLARD,
IMPORTER OF FOREIGN WINES,
And Dealer in Liquors and Cigars.

Deadwood, Dakota, Jan 10th 1884

M^r. Edison. About 40 yrs ago by
M^r. de Paro, New York.

Dear Sir: In H. Davy in London 1791.

As you will see by the enclosed
card I have been referred to you for
a decision on a quite important matter
on the subject of the length of time
the Electric Light Lamp has been running
and is documented upon. If not asking
too much of your kindness I would
beg you to tell us when and where
the first Experiments of the Electric Light
were made and whether or not second
Experiments were made in Paris or
Somewhere near that year ago - also
when and where Experiments or Trials - if any -
were made in that city. Hoping to be
favored with an answer I am Sir
with many thanks Yours truly,
Respectfully
A. H. Maillard
Deadwood S. D.

1884-01-65

OFFICE OF

The Singer Manufacturing Company.

All Communications for this Office
should be addressed to
THE SINGER MANUFACTURING COMPANY.

NEW YORK
SEWING MACHINES

Jan 15 1884

Electer motor Co. New York

Sent

Please send me full
particulars regarding your "motor".

Prices and terms to Agents
and oblige yours Respectly
J. P. Donovan

We have no motors other
than those that work
on the main lines of
our system. E

1884-01-18

N. LEA & SON,
STOCK AND SHARE BROKERS,
JOHN WALFORD LEA,
CLEMENS HENRY ALLISON.

38, BENNETT'S HILL,

BIRMINGHAM,

18 January 1884

My dear Sir

You will I dare say remember my calling upon you in September last with an introduction, when you favoured me with an explanation of the then condition of incandescent electric lighting in America & gave me an order to see your Pearl St Station.

The kindness I received at your hands leads me to think that you will forgive me if I ask a further favour of you.

— Will you oblige me by reading the "Electric Lighting Memoranda"

in the enclosed cutting from the Gas Journal of 13th inst.?

Some clients of ours are contemplating the formation of a company for supplying incandescent electric lights in this town under an "Order" recently obtained & any remarks that you may think proper to make with reference to these somewhat damaging reports will be esteemed a great favour by

Yours very truly

John W. Lea

J. A. Edison Esq
5th Avenue
New York

these works are therefore fully conversant with the method of working and using fuel gas. By an easy extension of the system of generators it will be possible to have any quantity of the fuel for sale as well as for consumption on the premises. The experiment might therefore be tried with less of a breaking-off from old usage than our correspondent imagines. If such a method of introducing fuel gas should prove successful, the existing order of generators would give place to larger and improved apparatus for producing the best grade of fuel gas which coke and steam could yield. The erection of condensers for the recovery of the ammonia of the coils would not be a serious matter after this; and the services of an old gasholder of small capacity, such as may frequently be found in large works, would afford as much compensation between the exigencies of production and consumption as would be needed. This is by no means a fancy picture of what might be done in many towns of the United Kingdom. The obstacles in the way of a Fuel Gas Company—with everything to buy, and an establishment to set up on this one source of revenue—do not exist for a Gas Company or Corporation. To slightly paraphrase a famous line, "they've got the coils, and got the 'men, and got the money too!" Here is a new line of progress in which any enterprising and influential gas engineer, properly inspired with boldness and caution for the task, may make himself a pioneer. It is a subject which they may well occupy the attention of The Gas Institute at their next meeting; but, meanwhile, who will supply the facts upon which discussion may proceed?

ELECTRIC LIGHTING MEMORANDUM.

THE subscribers to the great Edison electric lighting installation on the Holborn Viaduct have received a courteous intimation from the Secretary of the United States and Edison Company, to the effect that the supply will soon be terminated, and they are therefore requested to inform the Company when it will be convenient to have their services cut off. Thus ends the enterprise from which so much was expected, and which would have been keeping itself in existence at a cost that will never be revealed. Of course it will be said that this stoppage is only a preliminary to a recommencement of operations elsewhere in a more favoured district. But it will occur to most people that the position occupied by the Edison Company on the Viaduct was good, as they can hope to find in any other part of London. It is a central site, on a thoroughfare provided with subways, whence the extension of supply into the most thickly populated and affluent part of the City was extraordinarily convenient. The whole of the City of London was open to the introduction of the incandescent system from this centre of supply. Wherefore, then, retreat with the road to victory clear? The Company's circular states that the installation was intended to promote the scientific possibility of supplying incandescent lighting; and this having been done—the lighting is to cease at the earliest possible date! Truly a curious method of signalling a triumph. The subscribers who went to considerable expense to adapt their interior fittings for the Edison system will, of course, lose their money, which will constitute their reward for the enterprising spirit they displayed, and the patience with which they endured the occasional eccentricities of the light. Their fate will surely be an encouraging one to the subjects of the next attempt on the part of the United Company.

The South-African Brush Company had an exciting meeting last week, at which the shareholders completely upset the proceedings of the Directors. It was an extraordinary general meeting, convened for the purpose of passing a resolution originating with the Directors, for the reduction of the capital from £100,000 to £60,000, by converting the £5 shares into £6 nominal, which would leave an unpaid liability of 10s. instead of 20s. as at present. In moving the resolution for this purpose, the Chairman made a speech of the usual character; boasting that the Brush dynamo was the best in the world, and stating that the lighting done by the Company at Kimberley was much better than anything of the kind that had been seen in England. It is remarkable how often one lends perfection, and perhaps "enchantment to the view" of electric lighting. Failures and disappointment close at hand are always explained away, and everything is reported to be so much better than one could expect. English people used to be told by the earlier Brush prophets that the place to see their light in perfection was America. In the United States, the successes of the English electricians were equally held up to admiration. Not long since the reporter of *The Times* stated

that electric lighting in perfection could only be seen in Vienna. M. Philippart recently told the unfortunate shareholders of the Accumulator Company that the dynamo and the batteries could drive tram-cars in Paris better than in England. Now we are informed that the best display of Brush lighting is in the diamond-fields of South Africa. The South African Brush shareholders, however, seemed to think that the game was played out; and they declined to allow the Board to handle the unsold balance of 10s. per share. They submitted an amendment, in the teeth of the Chairman and his friends; and as this was not put from the chair, they contemptuously rejected the Directors' resolution. A poll was demanded; but, whatever may be the result, it is evident that the working days of the speculation are numbered, as the shareholders seem determined to enforce a return of so much of the capital as can be saved.

The public of New York have apparently awakened to the evil of allowing electric lighting companies to string their wires all over the city without restrictions based on considerations of safety for life and property, and have been told by many authorities that the only possible course to be followed is to compel the electric companies to put all their cables underground. The *Sanitary Engineer* recently summed up the prevailing idea, by declaring that electric lighting was not so much a necessity for social existence that the dangers of the exposed wires could be overlooked for its sake. The companies are therefore bidden to bury their cables; and when they reply that they cannot do this and live, the alternative is accepted with almost brutal candour. Meanwhile, however, it has been overlooked that underground wires are quite as dangerous as open ones. This view of the case has been presented to the American public by Professor Henry Merton, in a letter which is a model of his kind. He shows that of all the systems of electric lighting in use in New York, the Edison Company—with their underground wires and low-tension currents—are chargeable with having caused the greatest damage. It is true that the total amount of injury to life or property from this cause is said to be insignificant; but it is curious fact that "more than seven times as great loss has occurred from the 16 miles of underground wires than from the 800 odd miles of aerial wires, although the latter have been much longer in use." Professor Merton thinks that the chance of accidental contact with the wires would always be greater when the latter are underground. All the existing views of the companies, it is said that "it is impossible" to carry on successful electric lighting on an extensive "commercial scale with underground conductors," because of the expense. Professor Merton's ideal solution of the difficulty is the construction of subways—which postpones the satisfactory introduction of electric lighting to the millennium of the sanitary reformer.

THE CORPORATION OF LEICESTER UPON FINANCE.

THE CORPORATION of Leicester have a Bill for the coming session, which seems to have caused considerable ferment among the ratepayers. The subject of contention is the financial scheme for which fifty members of the corporate body have made themselves responsible. All the existing provisions for the repayment of debt are to be repealed, and periods are stated for the repayment of existing and future debts, apparently at the uniform term of sixty years from the time of borrowing. The manner of repayment to be by putting aside a sinking fund to accumulate at compound interest until it reaches the necessary amount in the given time. Thus the great discovery of the Leicester notables appears to be nothing more than the old fallacy that it is more probable to clear off debt by saving money in interest, than by annual deductions of the principal in the now usually accepted manner. The proposal is called locally by the somewhat mystifying name of "equation of period;" and its originators have taken the trouble to explain the matter, as they understand it, in a circular addressed to the ratepayers. We are not aware whether our own explanation is stated in so many words in this document; but this appears to be the purport of clause 20 of the Corporation Bill. At all events, although the subject is surrounded by a great many bewildering phrases and serious considerations, little central idea of the proposed alteration of the financial arrangements of Leicester is the discharge of debt by accumulation of savings at compound interest. Now, this idea is a very crude one, and it is to be noted upon by Sir Robert Walpole and Mr. Pitt, in their attempts to reduce the National Debt. The mistake lies in not seeing that the same effect is to be secured, at a cheaper rate, by annually paying off such an amount as that proposed

METROPOLITAN HOTEL,

Broadway and Prince St.

New York.

HENRY CLAIR, Letter.

1884-01-19

New York, Jan. 19 1884

Mr. Thomas A. Edison,

Dear Sir,

Have you any circular or public pamphlets which would aid or be interesting to us in pursuing our electric light investigations? If so, we should be greatly obliged if you would send such as you think proper by the bearer, as the day outside is favorable for in-door investigation and reflection.

Most Respectfully Yours,

Dr. Cullis

Ed. A. Roberts

Isolated Calent

Say that we have all data
in Mass at affix have
published by letter

Mr H. A. Edison Patent

Dear Sir: We have small motors for
 running sewing machines but they
 must be connected to the
 mains in the Peapack district
 Very truly
 Yours
 Edison

inform me if there is such a thing
 as an electric attachment to run
 sewing machines in private families.
 If so are they a success and where
 can they be procured I desire
 very much to purchase something
 adapted for this purpose. By giving
 me the desired information you will
 very much oblige
 Yours Truly
 J. Chad G. Stabler
 No. 23/84 of Church St. 129 Peapack City

Lumbury Pa., Feb. 4, 1884

Mr. Thos. A. Edison,
New York, N. Y.,

Dear Sir:

Some time ago I got up an appliance for regulating ~~the~~ incandescent electric lights — that is, for turning them down or up, to any degree of brightness or dimness desired, same as you can a gas jet. A patent is now pending for the invention at Washington. I have been using it for three or four months on one of your lights in my bed-room and find it a very great convenience. Mr. ^{Jr.} Marr, of the Ed. Elec. Light Co., of this place has seen it work and was much pleased with it. If I send you a description of

it, will you give me your opinion of it? I thought you would likely be interested in it.

Yours Respectfully
S. Ambrose Hill

Send description

{

1884-02-04

GEORGE W. LOWRY
CHAS. FRANCIS STONE
HOWELL HUNT
JOSEPH S. AUERBACH
RICHARD W. STEVENSON

Lowry, Stone & Auerbach

Attorneys at Law
No. 3 Broad Street New York

Write to me
perhaps any time
Feb. 4th 1884

Dear Edison

My friend D. H. King

whom you will know as the builder
of the Milk Building, the Knicker-
bocker at the cor of 28th St & 5th Ave
& various other of the largest &
finest buildings in the city is much
interested in your system - I want
him to know you especially will
referance to uptown district.

I will ask him to call on you
& make an appointment

Yours
G. W. Lowry

THE HAMMOND ELECTRIC LIGHT & POWER SUPPLY CO. LIMITED.

110, CANNON STREET.

LONDON, *Mar 3^d* 188 *H*
E.C.

Dear Sir/
I have much
pleasure in forwarding
you a copy of my new
Work— "The Electric Lt.
in our Homes"— for
your kind acceptance

Yours truly
R Hammond
per H. R.

HARRY HILL'S GRAND FANTY DRESS BALL.
—
Inauguration of the Cotton School: Sat., Tues-
day evening, Feb. 20. Mr. Edson and friends will
be present.

Dear Robinson,
As a personal friend of
Mr. Edson, you are specially
invited to be present —
Yours,
H. H.

March 6.

7th Street

W. A. G.

St. Louis, Mo.
Mar. 31st/04
on board the Edison

Mr. Edison

Dear Sir -

We arrived here
last night being 8 days out
from St. A. the Hawlowe canal
had only about 10 inches of water
the lowest of the season in
fact the diagoon and head water
of the Missouri River has not
been so low for a long time
I had to have men to drag
the boat through the canal
we had to take every thing out
as we drain about 18 inches
or more. It cost me \$6 and
probably it will cost \$6 more to
get back home. I was very anxious

to get along, and make a week's days over the three weeks
end of the trip that I would be out agreed on. but if you want
of pocket than go back, though we to go farther and prolong
my brother as well as my self the trip we will keep at it at
was very much dis appointed \$20 per week my brother \$12
and discouraged in making a and \$48 that is as low as
success of the trip as we have he will go for, we both could
had a succession of ill luck, such so better at home but he is
a dead wind, calm and that anxious to help me and make
low water since leaving of U.S. a success of the trip and go
We will probably be able to reach as far as possible to go, among
as far south as Saint Louis the days and time. I think two
although it may take over three or three weeks more to make
water to do it. I have gathered the trip we have been doing
a few times, though have been our best to get south as far as
anxious to get as far south possible, but find it much hard
as possible and then gather time with than are expected to. If
on our way back, she writes you think it advisable to go
so low that it is almost impossible telegraph or soon as possible
to get near than $\frac{3}{4}$ of a mile (as mails are very slow in
to show. My brother is anxious this part of the country) 10 days
to do all he can to help me and find then mail to Rock Bay
is not particular as to a time as we have arranged with

the Post-master to forward by mail steamer to run down the river whenever we may be.

I send you a few papers by mail from Rock

ledge and will send more as fast as possible.

We have been beating to windward all day and have made about 25 miles. We left Sitka this morning at 6 and arrived at Rock ledge at 7:30 P.M.

Excuse pencil and writing for this letter was written on board the yacht *Ensign* at full speed.

Yours respectfully
Chas. M. Whitney

No but I'm going to
get one & come down
Alma to Tampa + Punta Rassa
Iola - Great work
Mar. 10/04

Dear Sir

Have you any kind of
lamp for use under water & besides
a reflector may be attached for other
purposes, a general utility article, lamp
& lantern for camping, hunting, fishing etc
Should like to see a price list if you
have one

Very truly yours

H. Rice

Thos. A. Edison Esq.

Send Sample 1/2 inch wire welded

Altmore

April 21/04

Mr. T. A. Edison

Dear Sir:

I met your
Mr. Cox in Richmond
some time since & mentioned
to him that Copper could
now be welded & was ad-
vised to write you about
same. if your wires could
be welded instead of tied
Can you inform me what
it would be worth.
Awaiting your reply, I
am

Respectfully

A. J. Tibbels

Box 245

weather clear and pleasant, after a long time, but discovered nothing
function run on our course for different than what could be found
Symma, the wind died out and left about 8:00 a.m., we left Symma
we reached (sic) S. S. Matangas bar at and proceeded on down the Melloro
to a bar at 9:30 we were beached at 3 pm and after remaining for an hour
a strong S.E. wind came up (which was 3 and back every five or ten minutes
ahead) we ran until 8:30 P.M. when we succeeded in getting within
found some reef and anchored for the night half mile off the shore
night having made only about 12 miles, when we had to come to a
mile that day, next am. at 8 am. our boat was dragging 12 miles
rip or two holes and with a good inches of water, and there was only
west wind kept on a course adding about twelve, next morning
Symma bar at 3:30 pm. with a heavy tide, some men (which cost
sea running, succeeded in reaching me the 14 and 14 some men
in safety the harbor of New Symma and to get everything out of the
several men broke over the boat and boat, and "hauled" her over, in
completely crushed everything on board, place on the canal there
board, and just before reaching there was only eleven and some place
what a heavy rain came up, six inches of water, after
when we arrived there we left the water fairly heavy, two days we
boat and took up our quarters succeeded in forcing the boat
at this hotel for the night, next day we had to show the boat
morning of dawn although we had a mile or a half before we

It can be done
Get it & will give a Com
E

New York April 29th 1884

Friend Edison

I called to see you
Saturday pm but you had left
for the day. As it is not very
convenient for me to get away
during business hours I thought I
would drop you a note.

A friend of mine was here
from Philadelphia to see me
in regard to progress made in
the direction of transmitting power
by electricity as parties having
large water power were desirous
of delivering power from the same
at a distance of about 10 miles.
He understood something had been
done in that line but he

did not think it could be done
satisfactory. He said the party
could raise any amount of money
to put the thing in operation if
it could be demonstrated that it
could be made successful. I
told him that without a doubt
50% could be diluted; that the
first cost would necessarily be
considerable; It would depend
upon the distance and amount
of L. p. required. I have sent
for particulars in this respect &
if you see anything in it for
yourself and a commission for
me please drop me a line
and I will call and see ^{you} on
receipt of additional information



Yours Truly

Fred Catlin

195 Broadway

Thos. A. Edison Esq.

ACME + ☉
CYCLOPEDIA
AND DICTIONARY



Lantz-Lantz Pub. Co.,
913 Arch Street.

Philadelphia, May 5 1884.

Mr. Thomas Edison

Dear Sir:- Will you
kindly inform me as to the num-
ber of your lamps in use, both
in the county and in Europe -
We have an item in our forth-
coming book and reference thereto
to but have no late data -
An early reply would greatly
oblige

Yours
Lantz-Lantz Pub. Co.

Mendocraft -

Can you supply this information
E

Mr. Edison

The information as far as I can furnish it is as follows

Despatch plants in U.S. & Canada 59,883 Lamps

N.Y. Cent. Station 11,500 "

In Europe 32,000 "

In England + installed by English Co. 12,000 "

For other parts of the world
Mexico, So. America, New Zealand, Australia, Cuba etc. 10,000

Total 125,383 Lamps

In the above should be added the number of lamps in the various

central station plants in the United States outside of New York City.

I cannot supply these. I suppose you have the records of them in your office 13,800 Lamps

Your memo did not indicate a week on your part that I should reply to the letter, so I send you the information.

W. H. Woodcroft

May 10/84

We have tried all kinds of mixtures forced through dies but they were not satisfactory. Coating outside of filament with oil & plumbago does not increase the life of the lamp — E
Ellsworth, Middlesex Co. Mass. May 8, 1884.

Prof Thomas A. Edison.

Dear Sir,

Are you acquainted with the various manipulations of Graphite or Plumbago and Clay as practiced by Pencil makers? I have been a Pencil maker for thirty years, and have had some experience with the substances mentioned.

Finely powdered Plumbago and German Clay in proportions of 3 of the former to 2 of the latter, well mixed by grinding, and well kneaded and dried to a very stiff putty, when put into a strong cylinder and subjected to Screw or Hydraulic Pressure can be driven through dies of any shape, and make thin ribbons $\frac{1}{2}$ of an inch thick and of any length and width. This strip can be wound on a drum or cylinder of just the size you want and dried there; then they can be carbonized in close vessels. Will not this make a stick for the Electric Light? Again, if the Bamboe

filaments were smeared with Plumbago and Oil before carbonizing as in Steam Picking, would that help prolong the life of the Wick.?

Please excuse this letter and the writer, who does not wish to be meddlesome, but only desires to assist one who has done so much for Science and Humanity. Truly yours,

Horace B. Hosmer.

Thos. A. Edison }
Menlo Park N.J. }

OFFICE OF
ANDERSON BROS.

Peekskill, N. Y.

May 22 1884

Mr. T. D. Edison,

Dear Sir -

We have an inquiry
from the west for a "wild electric
light" and have been advised that you
have done something in that direction.
The light is wanted for decorating some
singing performers. Can you give us any
information of cost etc. of a "plant" &
for such use, and quality of light?

Respectfully

H. Anderson

J. A. [Signature]

None in use here
in this County only
four in England have
none to supply
E

Order of 16 Cp is .90 ampere
+ 96 to 102 volts
another is .75 ampere & 100
to 108 V. C. Worcester, Mass.,
May 26. 1884.

Mr. Thomas A. Edison,
Menlo Park, N.J.,

Dear Sir:

As I am about to
begin some experiments upon a dynamo
of my own, and am going to use
some of your sixteen (16) candle lamps,
I desire to know their resistance when
working. One book I have says an
eighteen candle lamp requires 1.24
Amperes with an E. M. F. of sixty (60) volts.
Another book gives 140. Ohms with
8 ampere current. As these statements
differ so much, I beg leave to ask

of you the true resistance of one
of your sixteen (16) candle lamps; also
the current and electro-motive-force
required to maintain such a lamp.

I should also be pleased to receive
similar data referring to other sizes
of lamps.

Truly yours,

Allan D. Pirsteen,
#6 Dean Building,
Worcester, Mass.

1884-05-27

Corning May 27th 1884

Mr. J. St. Edison

Dear Sir and gentle

in this first paragraph
it just will be
to have one more man
onto friends' business

Bully, your answer to
my letter (written or dated
March 1884) was indeed
brave, you did not say
that you did not want
the man but only that
you could not find
a man from the

[Faint, mostly illegible mirrored handwriting, likely bleed-through from the reverse side of the page.]

Lamp 5

employ of a firm
that supply you in Bulbs
as it would not be
honorable treatment of
them.

at present things are
different with me and
as I am not working
for any one at present
having left the
Coaching Glass Works since
last summer.

I would like to ask
you once if you want
let me have a share
of your orders (Bulbs)
I would like to ask
you if you want

create a job for me
so to make a living.

I can furnish you
bulbs as good as any
one can I have blown
them while working for
Mr. Houghton.

if it is any chance to
have a share of your
orders please let me
know. I perhaps do
better to go down see
you personally.

Awaiting your news
I am yours respectfully

Levi Wagoner
P. O. Box 376

1884-06-24

9

9

UNDERGROUND WIRES.

THE CALLENDER INSULATING AND WATERPROOFING COMPANY have pleasure in announcing that their extensive works at East Newark, N. J., have just been completed; and that they are now prepared to supply the American market with Insulated Wires for all Electrical purposes, similar to the well known products of the parent Company—*Callender's Bitumen, Telegraph and Waterproof Company, Limited, of London, England.*

The underground wires of the London Company are well known throughout Europe; and are largely used by the Edison and Swan Companies of England, by the Brush and other arc light companies, and by the principal Railway and Telegraph Companies. The main cables of the New Law Courts, London, of Buckingham Palace, and of Hatfield House (the residence of the Marquis of Salisbury), are among the well known installations where the CALLENDER CORE is in use.

The insulating material used by the Company, "Bitite," is practically indestructible; it does not melt with heat, neither do gases, water, the atmosphere, nor the action of the earth affect it in any way. It is on this account the *best insulator as yet known for underground wires*; whether for light, telegraphs or telephones. Its insulating properties are as good as those of India Rubber or Gutta Percha, and, in place of drying up, it improves with age.

The Company are now prepared to manufacture wires and cables, to any specification, for overhead, underground or submarine purposes; at prices considerably below those of any other effective method.

For prices, samples and particulars, apply to

W. M. CALLENDER, Secretary,
7 Nassau Street, New York.

New York, 24th June, 1884.

1884-07-05

Office of D. M. Wyckoff,

Wholesale and Retail Dealer in Best Qualities

LEHIGH AND FREE BURNING COAL,

Cor. No. 8 & 9th Ave. and Sheffield St.,

Newark, N. J. July 5th 1884

Mr J. A. Edison

5th Ave

New York.

OK

Dear Sir:

I called
 at the M.S. Factory to see if I could
 get you a lamp. They wanted to
 know what I was going to do with it
 and where I was going to take it to.
 So I can not do any thing at the factory
 I will try and see what I can do in N.Y.
 for you next week I will get a trip
 magnet for you. I have also a receipt
 for Weston's Insulation that he puts on his
 wires before using it. I remain
 Yours etc F. A. Williams

E.C. LIGHT-DYNAMOS

Mr. Hastings,

I think you had better ask Mr. Edison his opinion about this. It is not for Prof. Antony personally! It is for the University, I think.

S. B. Eaton

per Mc.G.

July 22nd. 1884

*Mr. Edison
What do you
think of this?
S.B.E.*

~~per Mc.G.~~
*I think this belongs to me S.
personally & what to light
Co under our contract
Edison*

GRAPHIC

Major Eaton:-

What deduction if any do you think we should make
from our regular prices in selling a dynamo to Prof. Anthony of
Cornel University?

P. S. Hastings.

July 22nd. 1884.

per S.

DEPARTMENT OF PHYSICS,

Cornell University.

Ithaca, N. Y., July 17 1884

Edison Electric Co.,

Gentlemen

For what will you furnish us two identical machines for 30 Amperes each? 75 volts would answer my purpose but I believe you make all your machines for 100 volts and I should just as soon have them at that EMF.

I want the machines for general experimental purposes, for demonstration and tests in connection with the instruction in electrical engineering, for lighting, etc. ~~It should be a closed circuit.~~

Yours truly,
Wm. H. Babcock.

OFFICE, OF

Eric City Iron Works.

(DICTATED LETTER.)

Eric, Pa., July 25, 1884.

Thos. A. Edison, Esq.,
No. 65 Fifth Ave.,
New York, N. Y.

My dear Sir:-

The favor of your reply to my inquiry of the 9th inst. duly received. We will make arrangements to try the experiment with the large tube as you suggest, and I will take pleasure in informing you of the results, whether good or bad.

Thanking you for the trouble you have taken in the matter, I am,

Very respectfully yours,

Frank A. Schiffel
Super.

I. D. GARLETON.

Port Huron July 25th 1884.

W. L. Edison Esq
Dear Sir

Our people here
 in Port Huron seem to be about
 ready to get on electric light they
 are now experimenting with the
 vacuum light in many local
 houses of lamps, and many are
 coming in and out of the
 town looking for the best
 my think that we can't speak
 in occupying any one of the
 things in light. The first thing to be
 done is to get the candle in a good
 position for the lamp, and
 as we are divided of the same

Muske Coal Mine Aug 21 1894

My Dear Prof. Mendenhall,

Your kind letter in response to mine was received a week ago with greatest pleasure. I got here from Tokyo last month and since then I have made some investigations of the conditions involved in the question of the economic installation of electric plant in this mine. I forward you a list of requirements which must be practically and economically fulfilled and I beg you will consider it critically. The principal difficulties appear to be in the variable number of lamps lit, the constant extension and interchange of wires, the continual steadiness of light and the arrangement of lamps at the working faces. The map I sent you before shows a space worked out by about a year's work and consequently in 10 years the ~~the~~ mine will be enlarged about 10 times. ^{The use of} Fluorescent light (10 c.p.) will be increased accordingly but not in so rapid a ratio, because the number of faces actually worked being limited to say 100 as a maximum, the roads leading to those faces alone requires light at one time. The number of lamps used at working faces will remain constant

However much the mine is enlarged, one working face requires 2 lamps of say 10 sp. each. 200 lamps at these faces will be the maximum number. I can not imagine how many fixed lamps we need at the end of say 10 years hence, but I do not think it will much exceed 500. We need also some lamps about 15 or 20 at surface at night. Arc light may be better at surface. It seems necessary to use as power a double engine of some special construction so that each part will work alternately. As the electric light does not appear to be generally adopted in the foreign collieries, we feel all the more doubt and uncertainty regarding its economic value, superiority in coal mines & unless that is entirely dispelled we can not think of adopting it. We are anxiously waiting for Mr. Edison's estimate and his opinion of the installation. I wish you will kindly acquaint him with the matters contained in this letter for his further consideration. It might be added here that the present use of oil amounts to about 900 gal. per month but about 20% of it can not be displaced by electric light. I hope this will meet with your kind consideration. Hope you are well & prosperous. My kindest regards to Mrs. Mendenhall & Charlie in which my wife joins.

Yours Truly,
F. Dan

Requirements

1. The light must be perfectly steady and kept lit without any break at least two weeks or better a month in a stretch at the end of that time the machine might be stopped for a few hours.
2. The number of lamps lit must be made variable and capable of being increased, as the mine is developed, up to say 500 or more.
3. The main wires must be so laid that a portion of the mine alone is lighted, while others can be turned off. All the wires must be so connected that any part can be detached from the main wires and attached to any other part of the main wires. The main as well as the branch wires must be capable of being lengthened as the mine is enlarged and the number of lamps increased.
4. At the working surfaces where the work is constantly progressing the lamps used must be constantly whipt further along. If flexible wires are used for this purpose, it must not in any way hinder the passage of men as

at work. It must not be broken nor get twisted or in any way involve complications which ~~may~~ retard the progress of the work. The lamps must be strongly protected from the falling coal or rough handling of men, and can be freely carried about the face of work. — The non-portable nature of the lamp and the liability of it to damage appears to be the chief objection against the use of electric lamp in foreign Collieries.

5. All the lamps must be protected also from the falling rocks and accidents.
6. All the wires must be so stretched as to prevent sparks which might set fire to the mine.

Above appears to be the principal difficulties in the way. After 10 or 12 years the interior of the mine will have the radius of over half a mile & so proportionally the wires will be lengthened and the external resistance is increased. If the above difficulties are overcome then I can think of no cause which prevents the installation of the electric plant except the question of cost and maintenance.

Attn. - George B. Blair & Co.

Cincinnati, Sept. 15th 1884.

The suggestions you make
were provided by patent
Dear Sir: in 1878 @ 9-

If all the modern
inventions calculated to benefit
mankind, none perhaps, has larger
possibilities, than the electric in-
candescent light. The oft repeat-
ed saying, that the eyes of the civil-
ized world are riveted on Menlo Park,
are surely no exaggeration.

Will you, therefore, excuse my pre-
sumption, of desiring to lay before
you the results of some experiments,
which might help the electric light?

It seems, that your invention
is now perfect to such a degree,
that but little is left to be desired.
Among that little, there seems
to be the possibility of an improve-

would in the material used
for the carbons.

I am not an expert in electrical
science, possessing not more than
a knowledge of the general prin-
ciples of electricity - but I
believe in the possibility of an
almost indestructible carbon mat-
erial, which might obviate the
necessity of a vacuum.

I am far from thinking, that
my first attempt would be
crowned by immediate success,
but believing to be on the right
track; I would, if you should
think it worth while, to test the
material and point out points of
deficiency, - try to correct them
by further experiments.

I am a Pharmacist, established
in this city some 20 years, and my
business absorbing all of my time;

I am not able

to practically test the value
of my experiments, and I could
only succeed by your kind
cooperation.

The chief component of my
preparation is black lead, combin-
ed with non-oxidizable and non-
combustible matter, that the heat
of electric light will not fuse -
If I had in my possession a pattern
of the carbon, of the exact size
and shape you employ, no matter
of what material, I would shape
some carbons of my composition
according to it, which I would
send you for testing. On a first
attempt proving abortive, I should
continue experiments, untill suc-
cessful if success should lay
in that direction.

Asking your kind indul-
gence for this trespass on

your valuable time,
I am

yours respectfully

Chas. Wittstein
Pharmacist
Cor. Main & Woodward Sts
Cincinnati, O.

Mrs. Alva Edison, Esq.
Menlo Park
New Jersey.

G. P. PUTTMAN, President.
GEO. BENE, Vice-President & Treas.
J. W. HYMAN, Secretary.

Standard Time Company,
Uniform Time,
18 Broadway.

C. A. NYERHOFER'S
SYSTEM.

WELLES BUILDING, GENERAL OFFICES: ROOMS 420 & 421.

New York, Dec 15th 1881.

OK

Prof J. A. Edison
65 5th Ave N.Y.

My Dear Sir:

This will introduce
Mr C. A. Nyerhofer an Electrician
of Vienna, and who has had
some correspondence with you -
I am instructed in the introduc-
tion of his Time system into
this Country and shall be
glad to have you examine our
Exhibit here in actual operation
when you can find it con-
venient to do - I can congrat-
ulate you upon the acquisition
of your new patent.

Yours Truly
James B. Edison

THOMAS A. EDISON,
Central Station, Construction Dept.,
No. 65 FIFTH AVENUE,

Travelling from France

Form L. 3005-12-3-83.

New York, 29th December 1884

Thomas A. Edison,
New York.

Very Honored Sir.

The meter we have in
satisfactory - you might
compare with M. Turritini
Engineer of Geneva who has
my system for Switzerland
Having invented an Electrical meter, simple,
practical, correct & of easy regulation, I address myself
to you, to ask you, if you would take out in my
name, the patents for the meter; I have not the necessary
means to myself take out the patents; in order to save
unnecessary expense however, it wd perhaps be useful
for me to have a list of the meters patented already,
& based on a chemical action. -

To compensate you for your outlay, you
wd have the exclusive privilege to purchase the patents,
the price of which could be would be settled by
arbitrators, if we did not come to an understanding.

If you agree to my proposition, or
if such you have others to make me, please favor
me with a prompt reply -

Yours
T.A.E.

If convenient to you, please answer me in French.

G. Dutoit -

address: G. Dutoit Belfontaine -

Mailly.

Canton of Fribourg (Switzerland)

3 -

D 1884

El. St.

My Dr Edin.

We got something that
will interest you Its a
new material from which
Weston is going to make
high economical lamps
of every candle power
It looks very much like
your new Parchment
Paper but it isn't Its a
natural - not manufactured
article - Come down
see it - I want you to
employ the man who gave
it to me - hes a good
mechanic & will make
a good supervisor for you

Chester John work

Laboratory of
Thomas A. Edison

Menlo Park, N. J.

In a Central Station 188
(two wire system) you only
require one ammeter indicator
unless you desire an ammeter
indicator on each dynamo
to show what portion of the
load each machine carries

Certificate of Organization

This is to certify that the
 Thomas A. Edison Francis R.
 Upton and William Holzer do hereby
 associate ourselves into a company
 under and by virtue of the provisions
 of an act of the Legislature of the
 State of New ~~York~~ Jersey, entitled
 "An act concerning Corporations"
 approved April seventh eighteen
 hundred and seventy five and
 the several Supplements thereto
 and Acts amendatory thereof
 for the purposes herein after mentioned
 And to that end we do by this
 our certificate set forth

First that the name which we
 have assumed to designate such
 Company and to be used in its
 business and dealings is

Thomas A. Edison Company Contractors.

Second. that the objects for which
 said Company is formed are
 (1) to purchase, own and use and license
 to others, their patents, patent rights, processes
 and mechanical contrivances for and

regulation or
relating to the generation, application
of electricity to light, heat, power,
telephony, telegraphy and such other
arts, uses and purposes as the same
may be employed in or applicable to.

2) To sell, grant and assign such
patents, patent rights, processes and
mechanical contrivances -

3) To manufacture, own, lease and sell
various articles, apparatus and devices
used or to be used in the generation,
regulation or application of electricity
to the purposes aforesaid.

4) To contract for, and to erect ~~and~~
^{and operate} install, Edison Electric Light Central
Station Plants, in the various cities
to towns and villages throughout the
United States ^{to other countries}, and for such purpose
to erect buildings for use as central
stations, and to lay erect and
construct suitable wires or other
conductors with the necessary poles,
pipes or other fixtures in, on, over
and under the streets, avenues and
places of such cities, towns and
villages and to supply purchase, sell
supply and furnish such material
engines, machines, apparatus, devices
and things as are required for ^{the} installation

operation and equipment of said plants, and generally to contract for, erect, build ~~and~~ ^{or} ~~erect~~ ^{erect} electrical works of every character and to purchase and sell all machines, material apparatus and devices necessary ~~and to carry on a general construction business~~ ^{therefor} and to do and perform ^{such} and every act incidental ^{and necessary} to said business and to exercise all the powers granted to Corporations in the Act above mentioned and the Supplements thereto and acts amendatory thereof.

That the place in this State where the business of such Company is to be conducted is the Township of Harrison in the County of Hudson, and the principal part of the business of said Company within this State is to be transacted at the place aforesaid, and it is to be the office of the Company.

That portions of the business of said Company may be carried on out of ~~this~~ as well as within this,

State is the installation, building
and equipment ^{and operation} of central work
Station Plants, ^{and central work} and the making
of estimates, determinations and
plans therefor, and the
place or places where the
same is to be carried on all
the City of New York, when the
Company is to have an office
and such cities, towns, villages
throughout the ^{or elsewhere} United States,
^{including the State of New York} as it may ^{operate} install.

The said Plants, and work
fluid that the total amount
of the Capital Stock of said
Company is ~~Five~~ ^{Twenty} hundred ^{thousand} fifty
dollars, the number of shares
into which the same is
divided is Two thousand five hundred
and the par value of each
share is One hundred dollars.

The amount with which said
Company will commence business
is Twenty five thousand dollars
which is divided into two
hundred and fifty shares of
the par value of one hundred
dollars each.

Fourth that the stock of

The said Company shall be trans-
ferable only on the books
of the Company by the order
thereof in person or by an
assignment made upon
said books, subject to such
restrictions and upon such
terms as the By Laws of the
Company may prescribe
Sixth The ~~names~~ names and residences
of all stockholders and the
number of shares held by
each are as follows

- Thomas G. Edison of Clinton Park, N.Y. 246 shares
- Charles Battey of ~~Clinton Park, N.Y.~~ ^{Clinton Park, N.Y.}
- Frederic K. Apton of Orange, N.J. 1
- William Halper of Harrison, N.J. 1
- Samuel ~~Halper~~ ^{Halper} of ~~Harrison, N.J.~~ ^{Clinton Park, N.Y.}

Seventh The period at which
said Company shall commence
business is the day of
Eighteen hundred and Eighty four
and the period at which it
shall terminate is the
day of ^{November} hundred
and

In Witness Whereof we have
hereunto set our
hands and seals this day
of 1884

Required to be
Held in the
Presence of

}

3 seals

State of New York }
County of New York } ss.

Be it Remembered
that on this _____ day
of _____ in the year of our
Lord one thousand eight
hundred and Eighty four
before me

personally appeared Thomas
A. Edison, Francis R. Lupton
and William H. Hooper who
I am satisfied are the
persons named in and who
executed the foregoing Certificate
and to whom I refer and
know the contents thereof
and therefore they severally
acknowledged that they signed,
sealed and delivered the same
as their voluntary act and
deed for the uses and purposes
therein expressed.

THE EDISON
ELECTRIC LIGHT COMPANY.

THE EDISON CO. FOR ISOLATED LIGHTING.

MARKLE & HALL,
MANAGERS MICHIGAN DEPARTMENT.

33-Corcoran-Sum-W.
103 Griswold Street.

Detroit, Mich. _____

188 _____

It is a fact well known to experts and others using the Electric Light that the generators are required to run at a high and uniform velocity -

The "approximate" of revolution has heretofore been accomplished by the use of very high speed reciprocating engines to overcome the check that the crank of the engine receives at each end of the piston stroke, and which check produces the flicker in the incandescent lamp and increased unsteadiness in the Arc light.

Very large engines cannot be run at high speed. Engines of sufficient capacity to light a large section of a city cannot be used for this purpose. Another and still more fatal condition in the use of large engines is the loss of power occasioned by the counter shafts necessary to bring the dynamo machines up to proper speed which loss equals from 25 to 50% of the power of the engine -

The most successful efforts heretofore made in this line have been by the employment of a number of small engines, each driving not more than two dynamos direct from the engine shaft. - It will thus be seen that great expense and complexity have stood in the way of central station lighting. -

To obviate these difficulties and to overcome the many

Detroit, Mich.

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defects contended with in former methods. John R. Markle, and Jas. B. Wayne, of Detroit Mich. have evolved and patented a system that effectually achieves the desired end in a direct and simple manner.

All belting, cog wheels or other intermediates being avoided and high speed direct from low initial speed obtained. -

A remarkable feature of this invention consists in the use of a comparatively small and light fly wheel ~~placed upon a counter shaft~~, and without increasing the speed of the engine, moving it with high velocity. -

The momentum thus attained giving a constant, steady and smooth motion to the engine. - The fact that the fly wheel is of very light weight is perhaps the most striking peculiarity of the invention. - The large store of power necessary to overcome the temporary resistance of the engine crank pin at the dead centres, being absolutely assured by its velocity instead of as formerly by its weight.

When the fact is considered that the mechanical effects produced are in direct ratio of the mass and of the square of the velocity, it will readily be seen that by doubling the speed of the fly wheel, four times the effect is produced, and likewise by increasing the speed

Detroit, Mich.

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three times, we obtain nine times the effect; and by increasing the speed four times, sixteen times the effect is obtained, and so on. - Thus it is seen that the laws under which this simple mechanism operates are well defined and thoroughly understood.

It is well known that in order to communicate a certain velocity to a given mass it is necessary to expend a certain quantity of energy or flow it by some form of mechanical work, and an energy too that is proportional to the mass of the body and to the square of the velocity communicated to it.

Bodies having such velocity possess a certain potential or live power and return to a state of rest only after having expended the live power that the cannon ball makes its way, that tops revolve and that fly wheels carry reciprocating engines over their dead centres.

With engines it is found that the greater the stored power or live power in the fly wheel the smoother and more uniform will be its movements.

But two imperfect methods have heretofore been employed to accumulate and hold this live power.

Detroit, Mich.

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One is to use a heavy fly wheel with slow moving engines, the other to speed the engine with a lighter fly wheel. The trouble in the first case is that there is a low limit to the size and weight of the wheel that can be economically employed which is out of proportion to the work to be performed in evening up the movement of the crank pin at all points of its travel. - If the size and weight of the fly wheel be increased to a point necessary to accomplish the end, it is found that too much power is lost in useless work in overcoming the friction and atmospheric resistance of the fly wheel alone. - There being also a limit to the speed at which an engine can be run, even with a small and light fly wheel, and the same being below the point necessary to store enough potential to perfectly even up the travel of the crank pin at all points it is manifest that this method also like the first but imperfectly accomplishes the desiderata sought. -

In operating this device it has been noticed that the engine used, appeared to be doing its work easier than by former methods employed and that the

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engine apparently showed more horse power capacity than its size would indicate. This led the inventors to a study of this apparent anomaly and it was found in practice that in the use of slow moving engines the tendency of the engine to move slower or hesitate at the dead points of the piston stroke communicated such tendency or hesitation to the fly wheel.

This constantly occurring partial stoppage and again bringing up to speed, twice during each revolution of the fly wheel must of necessity consume a large amount of power, which would not be required were the movement made perfectly uniform. -

The power thus consumed by each hesitation would be but trifling, but when multiplied to the enormous extent that occurs the loss is very considerable. -

To illustrate: - Take a 500 H.P. engine running 60 turns per minute. This gives 120 hesitations per minute, 7200 per hour. - Should it require the power of the engine but one second each minute to overcome these hesitations or partial stoppages, there would be lost during each hour 60 seconds of work. In one day (10 hours) 10 minutes of work - in one year there would

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be a loss of 5 days work of a 500 H.P. engine.

The fact that a locomotive having cylinders 18 x 24 inches and a boiler of only 80 H.P. capacity will develop 700 H.P. running at a speed of 45 miles per hour has never been altogether accounted for. -

It must be due in great measure to the high potential represented by the fast moving engine and train behind it giving a very steady motion to the driver and rigid piston for the steam to act upon. -

To handle steam most economically in connection with engines it should work expansively in large measure & E. enter the cylinder quickly through large ports at beginning of each stroke of piston and thus obtain as near boiler pressure as possible up to point of cut-off. - Then expand it down to a trifle above atmospheric pressure at point of exhaust. - Now during this period of taking steam into the cylinder and expansion to point of exhaust is the whole time during which the work must be obtained from the steam. - If therefore by any means or for any reason a portion of the steam is lost during this time by leakage, its work

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diverted from the driven machinery by the fly wheel or other cause, or still more fatal, by shortening the time it has for work on the piston, a serious loss will evidently occur and the engine cannot give but imperfect results. —

Given a low speed engine of the most perfect construction, with the fly wheel on the engine shaft of usual size and weight, and it will be found in operation that the piston moves faster during the time of taking steam and expansion, than it does during the period of exhaust and passing the dead centre. — In this moving faster during time of steam taking and expansion, it also shortens the time in which the steam can work in fact ratio as the time is lengthened during exhaust and passing the dead centre. In other words the time and speed lost at the dead centre must be made up again during the time the piston receives its power. — Were it not done the engine would soon cease moving.

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To overcome these defects it is necessary to carry in connection with the engine itself a greater Potential or line power together with high Inertia to prevent check of speed and not lose temporarily at each half stroke a portion of the Potential or line Power gained and necessary to have remain constant. Under the laws and conditions by which the steam engine operates these constantly recurring checks to its movements and consequent falls in its acquired Potential when due to causes within the engine itself are a total loss. Extra energy is demanded at each succeeding half stroke of the piston to supply this loss alone. - It is evident no speed has been gained, or extra work performed by calling out this extra power, consequently the power so called out would not have been required had not the fall in Potential occurred; and hence the inevitable conclusion must be that the check produces a total loss in exact ratio to the square of the velocity and mass checked. - To produce electricity for distribution throughout Detroit for the various uses it could now be put to, for light and power

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will require many thousands horse power. —
More efficient means for handling the power
appears to be wanting most at present. — The power
can be produced cheaply but cannot be commercially
well applied to the dynamo electric machines on a
large scale. — The dynamo machines are efficient
as are the engines to drive them. — The difficulties
lie in connecting the two in such manner as to fill
the requirements of absolutely steady movement
without complication and consequent high cost
of production and loss of energy. — To light and
distribute H. P. throughout this city say 25,000 H.P.
is required. — The engines for such work should
be large vertical compound Condensing
Automatic Cut off in style in order to obtain
the greatest possible economy and reliability.

The nature of dynamo electric machines demand that
they be driven with a never varying speed smooth
and uniform at all times regardless of the work they
may be performing. — As at present used these re-
quirements cannot be filled by slow moving engines
owing to vibrations at their dead centres. — Again

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The dynamos must be so connected with the engines that each can be thrown in and out of connection instantly without in any manner interfering with others being driven by the same engine. - If engines thus used were each of 500 H.P. Capacity, 8 dynamos could be connected direct with each by this device. - To give the required 25,000 H.P. for this City 50 of such engines would be necessary, using 400 dynamo machines of 400 lamps capacity each - As used at present by the most approved methods but two of such dynamos are used by one engine, which as is seen in this case would require 200 engines. - To operate such a plant with slow speed engines (as at present used) would require numerous counter shafts, pulleys (both light and heavy) hangers, tighteners and miles of belting, all of which would occupy much space and absorb a large percentage of the H.P. in useless work.

UNDERGROUND COMMUNICATION.

—10:—
A "TIMES" REPORTER'S INTERVIEW.
—10:—

THE President of the New York Electric Lines Company was found yesterday in the ample offices of the company in Wall street.

Upon being questioned by the reporter whether he had any views to express as to underground communication and the reports of the sub-committees to the General Committee on that subject, organized in this city about a year ago, Mr. Shelbourne said he had definite opinions as to that matter, and consented to give the *Times* an outline of them. It will be recollected that this company obtained from the Common Council, some months ago, a franchise to lay underground conductors throughout the city. To the reporter's question as to the investigations and outcome of the underground committees, Mr. Shelbourne said:

There is an underground secret history as to the origin and objects of that committee which has never been made public—I say the committee, but I mean a little nucleus of individuals, two or three—who started the project and got up the committee. It was a scheme to get exclusive control of underground privileges for electric wires in New York City. It commenced in the autumn of 1882, a few weeks after the incorporation of my own company for putting down wires under the streets. Some persons then in relation with me, who held patents supposed to be valuable for the purpose, were approached and urged to have interviews with a certain person not far from the present office of the General Committee, and at one of these interviews the advantages of a combination in the use of these patents was cautiously broached. Such propositions not being warmly received, the advances ceased. It was noticed then that certain individuals, who had no system or resources of their own, were trying to run in on and get hold of other people's brains and advantages in the underground business.

A short period of watchful silence ensued until a franchise to my company reached the Mayor from the Board of Aldermen, when the leader of these same individuals appeared before the Mayor, and in claim of representing several companies, one of them, the Western Union, but not including the Metropolitan Telephone Company, urged the Mayor to veto our franchise, when we have reason to know he was inclined to sign it up to within a few hours of his action thereon.

At this time it evidently occurred to these individuals that they must use some weight and authority of scientific opinion to be found in the several companies

using electric wires, as a means of leverage upon inventors and patentees, and as a means of marshaling together and commanding their inventions, since to attempt this as before by private scheming and negotiation would only impress such inventors with the importance of their own patents and the intrinsic necessity of their own shoring in the scheme. To establish such a scientific inquest, which should appear to exhaust the whole subject, would be to set up a conclusive judgment—a standard yard stick, so to speak, by which these individuals who hoped to manipulate the committee could measure to their own advantage any patents of value which their owners would be under a practical necessity of placing at the disposal of the committee, *i. e.*, these individuals—or otherwise have them remitted to oblivion by an adverse judgment, or, better still, by silent neglect in the committee reports.

Well, what was the result?

I will come to that directly.

Did these individuals manipulate the committee?

Not very extensively. The Western Union from the start refused to be represented on the committee. The Metropolitan Telephone Company, with as many wires in the city as all the others together, was given the chairmanship of the General Committee, and its representative made a member of the important Committee on Electrical and Mechanical Devices, but notably he has abstained from placing his name to the report of that committee. So has the representative of the Bankers and Merchants' Telegraph Company, the next in interest. Of course, it was the thing to do to present a great array of names on the committee, but most of the members have little direct interest at all in the subject. What practical concern in underground lines has electric accumulator companies, or electricians representing companies who manufacture dynamo machines, or electrical apparatus, as the Western Electric Company? Then, too, the Governor of the State and the Mayor of the City appear, *ex officio*, on the General Committee and on every sub-division of it. I suppose the *Times* can see the unctuous design in that, by the light of what I have said, as these officials are too modest to lay claim to knowledge, either of law or fact, in electrical subjects, or to suggest a wish to enter that field.

You think, then, the members of the committee were not equally interested and did not work together in harmony?

How could they? Some of them, though they were willing to have their names stand on the committee, saw from the first the futility of expecting harmony, even of those who had in view the general good, and did not fathom the depths of the ambitious covert design which brought about the association of their names. The committee, in the relations and interests of its members, was like Barnum's menagerie. Here is the electric light, which requires a large wire and powerful currents which give a ruinous induction through considerable dis-

tances. The telephone, on the other hand, employs a very delicate wire and currents in comparison, while between the two are all grades of wires, apparatus and electric uses, as the telegraph, fire department, time signal, buglar alarm, and other services and apparatus. Now, all these several services are subjected to and controlled by patents, while patents which relate to electric light service and apparatus have no possible relation to or affinity with either electrically, mechanically or financially, the telephone service, or the several others mentioned.

Therefore, a patent which an electric light man would think very useful and valuable, would be utterly good for nothing to the telephone representative. Again, the owner of electric light wires has nothing of damage to fear from spark or induction of telephone wires, but he coolly asks, in committee, perhaps, of his telephone brother to pay an equal proportion to build a conduit large enough to keep his big wires far enough away from the little wires to prevent harm. The telephone man, of course, says: "I don't see it."

The *Times* can therefore observe the logical drift by which interests neither telephonic, telegraphic nor of other service than the electric light should be led to declare that sub-ways, *i. e.*, big tunnels, were the only practicable solution of underground electric communication. The *Times* has very aptly observed that other cities have wires of different sorts underground. No sub-ways were essential in those cases. Why cannot we likewise do that which is already done? The conclusion of the non-telephonic and non-telegraphic majority of the technical sub-committee must therefore appear to be both lame and impotent in the light of facts. A whole year has been consumed in coming to such a weak and irrational report. The flourish of promise at the beginning was that all the electrical patents and devices of the whole world should be analyzed and harmonized and assimilated into a system, if possible, but the committee seems to have been the whole year lost in the sewers of Paris, and its members only to have found each other again at the hour of signing the report, while a dark blindness of confinement was still upon them.

Did the technical sub-committee, then, make no report as to the merit or demerit of any patents or inventions?

I understand that no such report was made. A member of the sub-committee on organization told me it was thought that it would be invidious to single out and distinguish individual patents and patentees in that respect. Of course, I saw what that means: while giving out that they had found a system avoiding induction, they keep the discovery in the dark until the promoters of the scheme of prohibitory monopoly could get their legal grasp secured on their project by legislation, in advance of the public knowing details or being able to single out the electrical devices of essential value, since in such a case independent capitalists and combined action outside of their purposes and planings would, perhaps, be too soon for them, or "too previous," as the slang runs.

But, as to the matter of sub-ways, are they not practicable?

Well, I can conceive that if the several companies wished to stave off definite practical action in burying the wires for indefinite generations to come, they would adopt the ruse of reporting in favor of sub-ways. My opinion is that everything is possible in engineering, if you have time and money enough—hence the pyramids and other big things on the earth; but when we talk of the practicable we mean the useful, and our money's worth.

But suppose the city built them, and leased spaces in them for all the pipes and wires?

I will answer that question by first observing that the sub-committee's report on business organization was sly enough to throw in that suggestion, in my opinion, as a blind, or show of disinterested fairness, while the real aim lurks in the other part of the report, *i. e.*, the underground commission, the legislation making their plans exclusive, and repealing all laws and authorization which might interfere with that exclusiveness. But to the point of your question, I say that if the sub-committee on business organization were not led by the blind but ambitious personal interests of one or two of its leading members, it would see that the city has and can have no right to enter upon a private speculation. The city corporation lives and acts under a charter which comes from the people at large. Whatever benefits, and is of vital necessity to the whole public, that the city can do or ought to do, and if such a public advantage or necessity as affecting the whole populace comes to be wanted, like sewers, or water supply, which every man, woman and child needs and has use for, that the city corporation can rightfully do, or get constitutional authority from the Legislature to do; but it cannot enter upon a private speculation in taking the public money raised by taxation to bargain and dicker with a few corporations. It might as well, or rather, go into the grocery business, or start an oleomargarine factory. But if it be said the sewers and water pipes might be built in these ways, then I reply that where new sewers and water pipes are to be placed, there the city could place them in sub-ways if it chose, but not one foot larger than for these single purposes. But it may be said the city builds and owns wharves about its shores. So it does; but these, too, are for the whole public in coming and going in and out of the city. The same principle applies to the public markets. But suppose the city had the right to build sub-ways and put sewers, pipes of gas, steam and water, as well as wires in them, how about the cost and time required? The electrical sub-committee, after a whole year's delay, offers no plans or schedule of prices and periods—no maps or engineers' estimates! Why was this? Because, in my opinion, it was unwilling to stultify and condemn its own declaration in the mind of public sense, at the very moment while the words of its report were being read. The project is both grand and childish—grand in its thoughtless enunciation, childish in its want of practical common sense and financial arithmetic.

To remove and bring to one sub-channel, pipes already down in lines and at distances from the curb stones, under the streets, irregular and variable, and rebuild the sewers on a new system, would concern vested rights of private companies as well as the public purse, and would be a herculean task to perform, as well as a riddle of interests, rights, franchises and duties no political or financial philosopher could solve. And what authority could rightly compel private companies, with pipes already laid down by license of law, to take them up again and remove them to a new place, in and for which they would be compelled to pay a burdensome rent, for privileges no better than they had before? But suppose these heterogeneous things and uses are all gathered together in one assemblage of underground construction, what would be the condition? Simply this: the ordinary leakage from the gas pipes would fill the sub-way with explosive and deadly charges; the steam heat and leaking vapor would make it a sweat chamber reeking with dripping and stifling oppression; the cold water in, the water pipes would make their surfaces sweat like an ice pitcher in August; the sewers would distribute their mephitic gases, and along the walls of such a passage would be strung in entangling confusion, with rotting insulation and rusting metal, the spark-giving electric light and gentle telephone wires together. The picture is too hideous and dangerous to think about. It would require cast-iron men able to breathe blue brimstone and swallow chain lightning, to go into such passages to look after and work among their contents.

But how would it work, Mr. Shelbourne, if the several companies were made to remove their wires from the air and they should build or dig sub-ways for the wires alone?

They would never agree together to do it, and no company alone would do it for itself. As I have said, their several interests are wholly unrecconcilable. I am quite sure the officers and managers of all telephone and telegraph companies believe sub-ways or tunnels are entirely unnecessary and impracticable. The underground business can be successfully done for one-twentieth the cost of such large tunnels. The Western Union has recently put down two five-inch cast-iron pipes on Broadway between DeW and Twenty-third streets. These will hold twice as many wires as they want at present on that line. In Philadelphia, Chicago and Washington, wires are being down by similar inexpensive methods. Why, then, do we want tunnels in New York City?

Does your company expect to lay any wires in this city during the present season?

That reminds me of another point. It appears from the synopsis of the sub-committee's reports published in the *Times* that one of them—I presume brought about intentionally to pave the way to the conclusion reached, *i. e.*, the declared purpose of seeking legislation at Albany to establish and give grip to the scheme of exclusive monopoly sought—reported, in the words of the *Times*, "that there

was no law in the State under which a company could be organized to lay an underground electrical system for the purpose of leasing the conductors therein." The committee man who drew up that statement could not have looked into the law under which telegraph and telephone companies are incorporated.

By the Laws of 1853, chapter 471, any company incorporated under the general telegraph law of this State may exist "for the purpose of owning any interest in a line or lines of electric telegraph or any grants therefor;" that is, even a franchise is enough to found a company upon, or any part of a telegraph system will sustain one in law.

The Laws of 1870, chapter 568, expressly authorize the leasing and selling of telegraph lines, privileges and franchises.

The Laws of 1879, chapter 397, authorize all such companies to lay their wires underground on obtaining the right from the local authorities; in cities, "from the Common Council."

Nothing can be more clear and explicit in authority given than these several laws. As a matter of history, above ground, the Western Union and all the several companies, present and departed, have and do lease a large number of their wires, and by the laws recited there is no difference between overhead and underground wires in that respect.

Would not a company whose business should comprise the leasing of wires underground to all the companies, be beneficial, by unifying the work in the public interest?

Yes, most decidedly, provided it was not an exclusive monopoly in that respect, as the scheme which lurks behind the manipulation of one or two of these sub-committees seeks to establish. That is just what my own company was founded to accomplish. We have gone about it quietly in a business way. The difference between us and the scheme I have been talking about is, that we have all the essentials legally established—organization, incorporation, franchises, and all of them our own and none of them whipped into our hands by lurking and scheming on the brains of other-people.

Do you assume that the several companies using or to use underground wires will adopt and rent your system?

No, if we don't give them better and more advanced facilities than they have themselves or can get from others, but decidedly yes, if they can get for a dollar from us what costs a dollar and a half by themselves or elsewhere. This world is too rationally practical for sentiment in business at a loss. The ambitious, incoherent scheme which wishes to become fledged by legislative enactment and mount the wind of its own pretenses cannot get forward, for the substantial companies won't have it. They will neither join in to help make a heterogeneous, incompatible, and diverse striving exclusive monopoly, at their own expense in the main, but for

the greater advantage of other people, nor will they stand meekly by and see such a monopoly created against their individual vested rights and existing valuable franchises and property. I refer to the Western Union and the Metropolitan Telephone Company in saying that. Both of them as well as my own company have secured vested rights as to underground construction, and the Western Union has already its underground pipes and wires, as I have said. Is it to be supposed an Act can hereafter be passed which will destroy all that? The schemers for an exclusive monopoly are the veriest children in law if they think it. Will an Act of Legislature create an exclusive monopoly with power to compel all other companies to use what that monopoly provides, whether these companies will or not?

But suppose all the companies should be satisfied to join in and be a part of such an inclusive and exclusive monopoly?

Then good-bye to all other and further competition and all new companies hereafter. But if on the other hand those in the combination should be compelled by law to provide and lease lines and facilities to other and future companies, then they would be employing their present brains and capital in working out a great enterprise of facilities at their own risk and charges, which, as soon as ready for their own successful use, would invite, encourage and render practicable and easy the very competition they dread. They are not short-sighted enough to do this; moreover, as I said before, they cannot command the harmony of interests among themselves to do it. They are too diverse a lot. They would not agree upon the patents to buy or use, even if it were possible to buy them at all, for what would serve one company would be useless to another. They could not agree upon the spaces or the relations their diverse wires should occupy in the conduits, and, more than all, they could not agree upon the distributive cost to each company of all these things.

I see, Mr. Shelbourne, that you have studied these questions pretty thoroughly.

Well, I would be a very dull scholar, if years of practical application to this question had not taught me, at least, something. I do not believe that any enterprise to combine the wires of several uses under our streets will succeed except that which proposes, without seeking a monopoly, to provide a comprehensive system, with the patents and plans, tested for efficiency, ready at hand, in the honest possession of a company, like mine, which shall lay its own wires, in its own way, under its own plans and patents, and count for its property on being able to give each and all the companies alike a satisfactory service for ninety cents which was costing a dollar before.

Good day, Mr. Shelbourne.

Good day again, I am glad you came in.

HERMANN CLAUDIUS,

Electrical Tests and Measurements.

According to my experience, the conductivity of the commercial copper wire usually sold, varies from 74% to 99% and frequently a greater difference is found. The process of making exact measurements of conductivity is a very delicate one, and as I possess the finest reflecting galvanometers, sliding bridges, sets of standard resistances I am prepared to test directly, without recourse to other and less exact methods.

PRICES.

TESTS FOR CONDUCTIVITY.

1 to 5 Tests, without reduction of temperature, ..	\$3.00 each.
More than 5 Tests, each additional test,	2.00
1 Test with reduction of temperature and test checked at different temperatures,	25.00
Each additional test,	5.00

For copper bars of greater diameter than No. 00 B. W. G. special conditions.

Samples of small diameters ought to be at least 3 to 5, of greater diameter 5 to 25 feet long.

TESTS FOR CONSTANTS OF CELLS.

Taking constants every 5 minutes for continuous hour
or fraction,

\$3.00

Other measurements, adjusting of resistances, etc, made at low rates.

Address:

1605 LEXINGTON AVENUE, NEW YORK CITY, on
Rahway, N. J., Box 43.

1884. Electric Light - Ansonia Brass & Copper Company (D-84-021)

This folder contains documents relating to Edison's dealings with the Ansonia Brass & Copper Company, which supplied the copper wiring and tubing for the construction of Edison central stations. Much of the correspondence is by A. A. Cowles, secretary of the company.

Approximately 70 percent of the documents have been filmed. Routine correspondence regarding orders and the shipment of goods has not been filmed.

1884-01-16

THOMAS A. EDISON,
Central Station, Construction Dept.,
No. 65 FIFTH AVENUE

New York, *June 2* 1884

A. A. Conley Esq
In Ansonia's Iron & Copper Co. 19 Cliff St.
Dear Sir

In relation to the mine
you have suggested on account of Fall
River contract, we beg to say that accord-
ing to our books the amount of 1876 pounds
due the cat. 495822, will you kindly
let us know if the agree with your
records, as we wish to send you to day
our cheque for 75 percent of the amount
in accordance with our agreement.

Very truly yours

Thos. A. Edison

*No check
received in
1884*

J. H. Brown

$$\begin{array}{r} 1239.55 \\ \quad \quad \quad 3 \\ \hline 3718.65 \end{array}$$

*Mr Army with Mr Parks
Accounting and
495822*

W.E. Dodge, Pres.

G.P. Cowles, Vice Pres. & Treas.

1884-01-16
A.A. Conley, Secy.

Ansonia Brass & Copper Co
Nos 19 & 21 Cliff Street

RECORDED

Stenographic Letter

Enc.

New York, Jan'y 16th 1884

Thos. A. Edison Esq.

65 Fifth Ave, City.

Dear Sir:

I have received your esteem-
ed favor of Jan'y 14th with enclosure from
Mr. Kruesi, for which accept thanks. - I
return herewith, the enclosure.

It is I think apparent, that whatever
deficiency exists in the conductivity of
your Fall River circuit is not owing to any
fault of mine, and we are very glad that
such is the case
I remain,

Very truly yours,

Sec'y

1884-01-17

ANSONIA BRASS & COPPER CO.

108 21 CHURCH ST.

W.E. DODGE, President.
G.P. CORTLAND, Vice President & Treas.
A.A. CORTLAND, Secretary.

New York, Jan'y 17th 1884

T. H. Egan, Coast Dept -
No. 5 - 5th Ave. City -
Gentlemen,

Yours of the 16th just at hand
order 795 was shipped
yesterday; 792 & 786 was
expct will go forward
very soon, will let
you know positively
tomorrow morning -
You will please be
rest assured that the
order has to be
made up and it takes
little time to do it -
I have not had order
by post if you of other

1884-01-17

ANSONIA BRASS & COPPER CO.

108 21 CHURCH ST.

W.E. DODGE, President.
G.P. CORTLAND, Vice President & Treas.
A.A. CORTLAND, Secretary.

New York

188

we will be in a position
to fill your order at
once

Yours truly -
Lusonia Brass & Cop Co -
Smith -

P.S.

The Panzer Cable on
order 786 we will ship
to John Ott Co. Bingham
& Co 222 Ave B as requested
& the bill of the order
is originally directed

W.E. Dodge, Pres't

G.P. Cowles, Vice Pres't & Treas.

1884-01-26
A.A. Cowles, Sec'y.

Ansonia Brass & Copper Co
Nos 19 & 21 Cliff Street

P.O. Box 2375.

New York Jan'y 26, 1884

Wm. H. A. Edison, Esq. Dist.
New York City

Gentlemen

Replying to your
favor of 24th inst, our books
agree with you, we also
make the aggregate amount
of shipments to the Edison Contract
\$18,797⁸⁴ for which we please to
pleasure to receive the 75%
you desire to send us.

Yours truly

Ansonia Brass & Copper Co
Sherrill

Mr Randolph
make cheque
for 75% of
this amt (think
it comes to $\$1409 \frac{88}{2}$)

ADDRESS

City of New York

NO.

REDEEMABLE

U.S. Currency 1000000000

Pay to the order of
\$1409.44

ANSONIA BRASS & COPPER CO.

109 21 CHURCH ST.

W. DODGE, President.
G. P. COWLES, Vice President & Treas.
A. A. COWLES, Secretary.

Stenographic Letter

New York, Feb. 27th 1884

Thos. A. Edison Esq.

66 Fifth Ave, City

Dear Sir:

I have your letter of complaint concerning Paragon cable - crossed.

I regret that such a thing should occur, and have written to our Factory, asking them to avoid such difficulties in future.

I remain,

Very truly yours,

A. A. Cowles, Sec'y

ANSONIA BRASS & COPPER CO.
108 N. GLENN ST.

W. E. DODGE, President.
G. F. COWLES, Vice President & Treas.
A. A. COWLES, Secretary.

New York, Feb. 8th 1884

Stenographic Letter

Thos. A. Edison Esq.

65 Fifth Ave, City

Dear Sir:

Mr. Bergmann I understand is satisfied with our Paragon cable for chandeliers, and was about to place an order today. - I am informed that through the influence of Mr. Vail, - who finds fault with the wire, - he has refrained from placing the order.

You requested me, when I found Mr. Vail using his influence to do us an injury, to notify you, and I therefore do so. You will remember the circumstances under which you made this remark, and you know the reason of Mr. Vail's animosity.

I remain,

Very truly yours,

Howly Sec'y.

ANSONIA BRASS & COPPER CO.

108 24 CHURCH ST.

W. E. DODGE, President.
G. P. CRAWFORD, Vice President & Treasurer.
A. A. CRAWFORD, Secretary.

New York, July 16, 1884

Thos. A. Edmund
Post Office Bldg.
Gentlemen,

In reply to
your letter of the 15th inst.
we now enclose you 60 pieces
for the 1971 lbs of Cop. Wire
returned by your people at
Hoghton,

Please excuse seeming delay
but our factory is so full of
work that it is unable to at-
tend to any thing otherwise than
the getting out of orders.

Yours Truly,
J. S. Crawford

ANSONIA BRASS & COPPER CO.

10 & 21 CHURCH ST.

W.E. DODGE, President.
G.P. COWLES, Mgr. Plant & Tools.
A.A. COWLES, Secretary.

New York Mar. 8th 1888

Stenographic Letter

Samuel Insull Esq.

65 Fifth Ave, City.

Dear Sir:

I have received your esteemed favor of Mar. 8rd in relation to working my Patents in France. - I am much obliged to you for the information, and I may be glad to avail myself of your kindness.

If you are in town to-morrow, will you kindly telephone me at what hour it will be convenient for you to see me at 65 Fifth Ave, - and I will call upon you.

Would prefer afternoon.
I remain,

Yours truly,

A. Cowles, Sec'y.

W.E. Dodge, Pres.

G.P. Cowles, Vice Pres. & Treas.

A.A. Cowles, Secy.

Ansonia Brass & Copper Co

No 19 & 21 Cliff Street

P.O. Box 2375.

New York N.Y. 11/11/1884

Thomas W. Edison Esq

63 Fifth Ave N.Y.

Dear Sir,

Your Note made payable at the Fifth Ave N.Y. \$4958.19 maturing 15th inst will be presented for payment on that day.

Very Truly Yours
Ansonia Brass & Copper Co
per H. H. H. [Signature]

11/11/1884

W.E. DODGE, President,
G.P. COWLES, Vice President & Treas.,
A.A. COWLES, Secretary.

WORKS AT ANSONIA, CONN.

ANSONIA BRASS & COPPER CO.

109 N. GLENN ST.

New York Mar. 14th 1884

Samuel Insull Esq.

65 Fifth Ave, City

Dear Sir:

I have received your esteemed favor of this date in relation to Mr. Batchelor. - I am very anxious to see him, and if he is to go via London, I would like to have him notify me, - C-O Phelps, James & Co., 10 Leadenhall St. I expect to be in London about the 30th of March. As it is possible I may unavoidably miss Mr. Batchelor, I shall be greatly obliged to you if you will furnish me letters of introduction to parties in Paris who have charge of your business, as I may wish to consult with them relative to my patents. - Also, if you please, letters to Prof. Colombe and parties having charge of your business in Belgium, and to your representative in London if you have one.

In case Mr. Batchelor sails from Liverpool, if he will telegraph me at the Adelphi Hotel at Liverpool I can meet him there, as he evidently will be leaving Paris about the time I reach Liverpool.

Any expenses to which you are put by cable messages on my account, you will kindly charge to us and the account will be promptly settled on presentation here.

I remain,

Very truly yours,

Sec'y.

ANSONIA BRASS & COPPER CO.
108 210TH ST.

W.E. DODGE, President,
G.P. COWLES, Vice-President & Cashier,
A.A. COWLES, Secretary.

New York, Mar. 14th 1884

Stenographic Letter

Samuel Insull Esq.

65 Fifth Ave, City.

Dear Sir:

Your esteemed favor of this date is at hand. - We will hold the note as requested, until the 18th, but as I am going away upon that day, in the morning, you will confer a great favor on me by making payment upon the 18th if possible.

May I count upon your so doing?

I remain,

Very truly yours,

A. A. Cowles
Sec'y

W.E. Dodge, Pres.

G.F. Cowles, Vice Pres. & Treas.

A.A. Cowles, Secy

Ansonia Brass & Copper Co

No. 19 & 21 Cliff Street

P.O. Box 2375.

New York, March 14 1884

Messrs Edison Const Dept
New York City

Gentlemen

Replying to yours of
even date, we regret that we
are unable to comply with
your request and give you
weight of each coil but we
will this day instruct our
factory to weigh each coil
separately and in future
bill accordingly.

Yours truly

Ansonia Brass & Copper Co
Sherwood

W.E. DODGE, President,
G.P. COWLEY, Vice President & Treasurer,
A.A. COWLEY, Secretary.

WORKS AT ANSONIA, CONN.

ANSONIA BRASS & COPPER CO.
198 ZACHARY ST.

New York Mar. 18th 1884

Samuel Insull Esq.

65 Fifth Ave, City

Dear Sir:

I have received your esteemed favor of this date with check for \$4,868.19 in full payment for note due Mar. 15th '84. - I enclose herewith the note, with thanks.

I have also received your favor of this date enclosing letters of introduction to your houses in London, Paris and Milan, and copy of cable sent to Mr. Batchelor. - I am very much indebted to you for your kindness in this respect, and I shall find the letters of valuable assistance to me, and shall also highly appreciate any advice which Mr. Batchelor can see fit to give me. I observe carefully the contents of your letter and will comply with your suggestions.

I think you will find our people disposed to accommodate you in every way during my absence, as I have requested them to be particularly careful in giving prompt attention to any orders they may receive from you. If farther will be in town at least once a week, and any matter requiring special attention will be referred to him. He is fully aware of my desire to accommodate you in every respect.

I remain,
Very sincerely yours,

Sec'y

W.E. DODGE, President.
G.P. COWLES, Vice Pres. & Treas.
A.A. COWLES, Secretary.

WORKS AT ANSONIA, CONN.

ANSONIA BRASS & COPPER CO.

10 & 21 CHURCH ST.

New York, *April 8th 1884*

SW Insall Esq Secy
Dear Sir,

I understand our Mr. Lodge to say (in talking over matters of business before his departure for Europe) that for the Edison Machine Works Account - you would perhaps give us some details by paper (Adding details to account from Amalgamated, & so on) and that the Construction Co's Accounts could be paid us in full as fast as you received your money - but to be included after 30 days on a whole of the Account - as per agreement. We enclose you the statement to the 1st inst showing amount due us Edison Machine Works, \$133.49 but for be running back a far as Dec 1st and J.R. Edison for diff. total \$19.199.97 last cash amount on the was 140.900 on 7th July Contracted Jan 21st. As we shall have some time payments of (cash) to meet on 15th & 18th of this Mo. I shall need all the collections we can get in. I thought I would write you to see if you can help us out. Will you kindly inform me if you can see the Note due to us. Mr. Lodge told me to see you all accounts &c - and if you could we will call on you at your office, and thank you named -
Yours Very Truly,
Suzanna Boyer (for Secy)
for J.W. Hunter (Cashier)

W.E. Dodge, Pres.

G.P. Cowles, V. Pres. & Treas.

A.A. Cowles, Secy.

Ansonia Brass & Copper Co.

Nos 19 & 21 Cliff Street

New York April 24, 1884

P.O. Box 2375.

Samuel Inoull Esq Secy

Dear Sir,

News not heard
anything further from you regarding
Edison Machine Works account - and we
could make good use of some papers
on our premises, I hope can do
anything for us - Shall I call up
to see you?

Very Truly Yours,

J. H. Miller Cashier
for Ansonia Brass & Copper Co.

W.E. Dodge, Pres.

G.P. Cowles, Vice Pres. & Treas.

A.A. Cowles, Secy.

Ansonia Brass & Copper Co
Nos 19 & 21 Cliff Street

P.O. Box 2375.

New York May 10 1881

Edison Mach Works

Saml Smith City N.Y. N.Y. 10

Dear Sir

We have to acknowledge your
recent check and receipt our B.C. to read
'5556.00 for lat. Jany 2nd last'

Accept thanks for promptly calling our
attention to above error which we doubt
will not occur again

Yours truly
Ansonia Brass & Copper Co
A.A. Cowles

ANSONIA BRASS & COPPER CO.
108 21 CHURCH ST.

W.E. DODGE, PRESIDENT.
G.P. COWLES, VICE-PRES. & TREAS.
A.A. COWLES, SECRETARY.

New York May 10 1884

Thos. A. Edison Cust Dept
65 Fifth Ave
City
Gentlemen

Your favor
of 9th inst is at
hand and in reply
beg to say our Mr
Stow will call on
you Monday and
let you know each
of drawing down wire
we -

Yours very truly
James Ross Haffey
President

W.E. DODGE, Treasurer.
G.P. GOWLES, Vice Pres't & Treas.
A.A. COWLES, Secretary.

ANSONIA DRESS & CUTTER CO.

108 21 CHURCH ST.

WORKS AT ANSONIA, CONN.

New York, *Nov 14 1884*

M. E. Deane

Dear Sir,

I will credit on account of the due
amount, and will hold the same as requested by you.
Will you kindly send us some papers
on Machine Works account as per invoice? We shall
need some dollars we can get in for our payments the
15th or 20th of this month (are you sending us
and greatly oblige me, as will do the Co.

Very Truly Yours,
J. H. Walker
for Ansonia Dress & Cutter Co.

ANSONIA BRASS & COPPER CO.

10 & 21 CHURCH ST.

W. E. DODGE, President.
G. P. COWLES, Vice President & Treas.
A. A. COWLES, Secretary.

New York, May 16 1884

James D. Lord Esq. Secy
Dear Sir,

Enclosed please find
Note paid in full \$507.⁰⁰
& Receipt for Cash & Note sent in to
applied on the Machine Works Account &
for your kindness, accept our thanks
Very Truly Yours
James D. Lord Esq.
M. Lord

W.E. Dodge, Pres.

G.F. Cowles, Vice Pres. & Treas.

A.A. Cowles, Secy.

Ansonia Brass & Copper Co.

Nos. 19 & 21 Cliff Street,

N. O. Box 2275.

New York May 19 1884

Mr. A. Edmund Esq.

South Lowell Esq.

Dear Sir,

Enclosed please find Note of \$958.19 for check sent of this day, and for which please accept our thanks.

Very truly Yours

Samuel B. Smith Esq. & Co.
For Messrs. Lathrop.

ANSONIA BRASS & COPPER CO.

109, 210 WEST ST.

W.E. DODGE, President
G.P. COWLES, Treasurer & Cashier
A.A. COWLES, Secretary

New York, July 8th 1884

Telegraphic Letter

Samuel Insull Esq.

65 Fifth Ave, City.

Dear Sir:

We have an order from the Edison Illuminating Co. of Ashland, Pa., for wire; - will you kindly inform me concerning their responsibility? I have no doubt they are all right, but would like such information as you can give.

I would also like to see you when you can spare me half an hour, to go over our matters together; if you will write or telephone me, I will call upon you any time you indicate.

I remain,

Very truly yours,

A. A. Cowles
Sec'y.

ANSONIA BRASS & COPPER CO.

109 210 1000 ST.

W.E. DODGE, President.
G.P. COWLES, Vice President & Treasurer.
A.A. COWLES, Secretary.

New York, July 10th 1884

Stenographic Letter

Samuel Insull Esq.

65 Fifth Ave, City.

Dear Sir:

Your favor of July 9th is at hand, and I am obliged to you for the information it contains, which will be treated confidentially. We have an order from the Ashland people, and before filling it I shall require them to make me a statement of their condition.

I note your promise to make an appointment with me at your earliest opportunity; - I am usually in town from Tuesday until Friday.

I remain,

Very truly yours,

A. Cowles, Sec'y.

ANSONIA BRASS & COPPER CO.

109 210TH ST.

W.E. DODGE, President.
G.P. COWLES, Vice President & Treas.
A.A. COWLES, Secretary.

New York July 24th 1884

Stenographic Letter

T I I ~

Samuel Insull Esq.

C-O Edison Machine Works,

Goerck St., City.

Dear Sir:

I have been waiting since I last saw you, for the documents you were to send me relative to contracts for construction account, and also full statement regarding the condition of the Machine Works

I trust you have not forgotten this, and that I shall receive the papers at an early day.

If you and Mr. Edison can make it convenient to go to Ansonia, I shall be very happy to entertain you there, and think I can show you some things that will be interesting. As soon as you can fix upon a time that will suit you, please let me know, and oblige,

Yours truly,

A. L. ...
Sec'y.

W.E. DODGE, Treasurer.
G.P. COWLES, Vice Pres. & Cash.
A.A. COWLES, Secretary.

WORKS AT ANSONIA, CONN.

ANSONIA BRASS & COPPER CO.

108 21 CHAT ST.

New York, Aug. 28th 1888.

Samuel Insull Esq.

c-o Edison Machine Works

100 Garrick St. N. Y. City.

Dear Sir,

We have made no preparation for taking any part in the Electrical Exhibition at Philadelphia, but I find that some of our competitors are going to exhibit insulated wire. In case we should desire to place a small exhibit occupying space perhaps three or four feet square, or if we desire to place a sign or distribute circulars of our telegraph wire at the Exhibition, could it be managed without any inconvenience to you to allow us a small portion of the space which I suppose you have allotted to you. Please let me know whether this can be done without giving you any trouble. I remain,

Yours sincerely,

A. Cowles

Secretary,

W.E. DODGE, Treasurer.
G.F. COWLES, Vice President & Director.
A.A. COWLES, Secretary.

WORKS AT ANSONIA, CONN.

ANSONIA BRASS & COPPER CO.

109 24 CLINT ST.

New York, Aug. 30th 1884.

Samuel Insull Esq.

65 5th Ave. City.

Dear Sir,

I have received your two favors of Aug. 28th. I am very much obliged to Mr. Edison for recommending our wire and I have already communicated with Mr. Bliss concerning the matter. I will decide in a few days whether to avail myself of your kind permission to use a small part of your space in the Philadelphia Exposition, I will communicate with you further. I remain,

Very truly yours,

Secretary.

ANSONIA BRASS & COPPER CO.

104 GOERCK ST.

W. E. DODGE, PRESIDENT
G. P. COWLES, SECRETARY & TREASURER
A. A. COWLES, SECRETARY

New York, Sept. 12th 1884

Stenographic Letter

Samuel Insull Esq., Sec'y.

104 Goerck St, City.

Dear Sir:

Your favor of Sept. 11th is
at hand.

I shall be out of town on Tuesday; - if
you can call here on Wednesday I shall be
very glad to see you. Please let me know
what hour you will call.

I remain,

Yours truly,

A. A. Cowles
Sec'y.

ANSONIA BRASS & COTTER CO.

108 214TH ST.

W.E. DODGE, PRESIDENT.
G.F. COWLES, SECRETARY & TREAS.
A.A. COWLES, SECRETARY.

New York, Sept. 10th 1892

Samuel Insull Esq. Sec'y.

104 Goerck St, City.

Dear Sir:

Your favor of the 15th is
at hand. - On account of the death of
Mr. W. Earl Dodge our store will be closed
to-morrow (Wednesday) and I will be unable
to keep the appointment with you. If con-
venient for you to call this afternoon, or
on Thursday before 2 P.M. I shall be glad to
have you do so. Please inform me by tel-
ephone, and advise,

Yours truly,

A.A. Cowles, Sec'y.

by *Samuel Insull*

ANSONIA BRASS & COPPER CO.
10 & 21 GLETT ST.

W.E. DODGE, President
G.E. COWLES, Vice President
A.A. COWLES, Secretary

New York, Oct 21 1884

J. Small Esq

Dear Sir,

Came up see how
order today abt 4³⁰ If so what
Mr. Cady may be out
of town tomorrow -
Very Truly Yours
Ansonia Brass & Copper Co
M. H. [Signature]

ANSONIA BRASS & COPPER CO.

INCORPORATED

W. DODGE, President.
G. F. COWLES, Vice-President & Mgr.
A. A. COWLES, Secretary.

Stenographic Letter.

New York, Dec. 27th 1884

Encl.

Samuel Insell Esq.

65 Fifth Ave, City.

Dear Sir:

I have received your favor of the 26th inst and note contents.

I shall be very happy to see you at any time you can make it convenient to call.

If the arrangement you mention is carried out in January it will be very satisfactory to me.

I wrote you last night inquiring about the responsibility of Mr. Hix; - I trust you will write me concerning the matter.

I remain,

Very truly yours,

A. A. Cowles
Sec'y.

Personna

Price list -

* 18 B & S Gypsum cylinders minus, connected in place, not including cost of transportation and painting.

No. of lines	Per foot of tube	Per mile of tube	Per mile horse
307	\$ 7.10	\$37588.00	\$ 122.44
295	7.02	37165.60	125.95
283	6.96	36748.80	129.85
271	6.88	36326.40	134.05
265	6.84	36115.20	136.28
253	6.10	32208.00	127.30
241	6.02	31785.60	131.89
229	5.96	31468.80	137.42
217	5.88	31046.40	143.07
205	5.80	30640.00	149.46
193	4.66	24604.80	127.48
181	4.60	24288.00	134.18
169	4.52	23865.60	141.22
163	4.48	23654.40	145.12
151	3.86	20380.80	134.97
139	3.78	19968.00	143.66
127	3.70	19546.00	153.90
115	3.18	16790.40	146.00
103	3.10	16368.00	158.91
91	3.02	15945.60	175.23
85	2.76	14582.80	171.56
73	2.68	14150.40	196.53
61	2.40	12672.00	207.74
49	2.22	11721.60	239.22
37	1.44	7603.20	205.49
31	1.40	7392.00	238.51
19	1.16	6124.80	322.36
7	.74	3917.20	559.60

1884. Electric Light - Armington & Sims (D-84-022)

This folder contains correspondence and other documents relating to Edison's dealings with Armington & Sims, manufacturer of steam engines for Edison central stations. Much of the correspondence is by Gardiner C. Sims, superintendent of the company. Some of the documents are partially illegible because of water damage.

Approximately 90 of the documents have been filmed. Routine correspondence relating to bills, orders, and the shipment of goods has not been filmed.



WORKS
546 HIGH STREET.

HENRY HOWARD, PRESIDENT.
FARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

1884-01-04

PROVIDENCE, R. I., *Jan'y 4th* 1884.

M. F. Morse, Esq.
General Agent, Wash.

Dear Sir,

As requested by
Mr. Sims I send to you with this the
account of Mr. Edison. I think that he
has had bills of all the stone except
those connected with the Brooklyn Engine,
which I also enclose. He must have
about 700.⁰⁰ due us for trading expenses
and labor connected with the Shamokin
Engines, but I have not included this
in the account because I do not know
exactly what Mr. Sims idea is about it.
 Hoping you may have no difficulty in obtaining
a settlement I remain
Yours very truly
The Anderson
Henry

Please address reply to the undersigned.

New York,

Jan 9th 1884

Mr Edison

Dear Sir

Your memo & letter from Pres of Sherrin's Co. are at hand and will give me my immediate attention by going there and looking over the situation I have mentioned for a good man to be sent from the shop who I will have go through the engine and put them in facilities I am at a loss to understand why the engine should not give satisfaction particularly since they have been all right I am sure should to think the engine are not receiving proper care

Yours truly
W. P. Thorne
Genl Mgr. & H. S. Co.

1884-0115.



WORKS
AT
546 HIGH STREET.

HENRY HOWARD, PRESIDENT.
PARSON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
CHARLES E. HOWARD, SECRETARY.

PROVIDENCE, R. I. Jan. 15th, 1884

Thomas A. Edison, Esq.,
65 Fifth Ave., N. Y. City.

Dear Sir:—We have this day shipped to W. D. Rich, Newburg, N. Y., engine No. 39, 14, 1-2x13. Engine No. 40, 8, 1-2x10 with extra Crank Pin Boxes for each.

Enclosed herewith, please find bill and bill of lading, and oblige,

Yours very truly,

Theodore Andrews
Secy.

1884-01-16



WORKS
AT
546 HIGH STREET.

HENRY HOWARD, President.
PARSON ARMINGTON, Treasurer.
GARDNER C. SIMS, Superintendent.
CHARLES T. HOWARD, Secretary.

PROVIDENCE, R. I., Jan. 18th, 1884. 188

Thomas A. Edison, Esq.,

Construction Dept.

65 Fifth Ave., New York City.

Dear Sir; -Your two favors of the 14th inst. have been re-
ceived and have our attention. We will send the ^{new glass for} oiler for the
cross head, to Mt. Carmel, Pa., as soon as we can obtain it
from the manufacturer. With regard to the pulleys for the
Fall River engine, we will go right to work upon them, but
would like to have the width of the face as well as the diam-
eter. The dimensions of your pulleys have been changed so
many times that the width of the face is quite necessary to
us, that we may make no mistake; and in the future, in order-
ing pulleys if you will give us both dimensions, it will ex-
pedite matters and insure accuracy.

Yours very truly,

Theo. Andrews
Secretary.

over them

1884-01-22



HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

WORKS
AT
346 HIGH STREET.

PROVIDENCE, R. I. Jan. 22d, 1884

Thomas A. Edison, Esq.,

65 Fifth Ave., N. Y. City.

Dear Sir; -Your order No. 704

Dec. 21st 1883 for two I4, I-2xI3 and one
9, I-2xI2 engines has had our best atten-
tion and we will ship the 9, I-2xI2 engine
with 57 inch special driving pulley, this
week. We hope to ship the others next
week.

Respectfully yours,

G. C. Sims Supt.

Confirmation of order

NOTE - 1/21/84



HENRY HOWARD, PRESIDENT.
 PARSON ARMINSTON, TREASURER.
 H. C. GRANSTON, ASST. TREASURER.
 GARDNER C. SINE, SUPERINTENDENT.
 CHARLES T. EDWARDS, SECRETARY.

WORKS
 OF
 548 HIGH STREET.

PROVIDENCE, R. I. *Jan'y 7th 1884*

Thomas A. Edison Esq

New York City

94 / 10

Jan 14

Dear Sir

*Below I beg to hand
 you Mem. of discount on notes recently
 received from you, which I trust may
 be found correct and satisfactory.*

Yours very truly

Thos. Anderson

Sic'g

RETURN BILL AND VOUCHER

*Mem. of Discount *Jan'y 7th 1884**

T. A. Edison's Note due March 27, 1884. 1000.00

The Edison Co's do. do. do. do. 7867.24

3867.24

*Discount on 3867.24 61 days @ 6% *39.27**

Antwerp A/c 10.17

Edison Mach Works 29.10

39.27



WORKS
AT
546 HIGH STREET.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

Handwritten scribble

Insull will be here on the 2nd

PROVIDENCE, R. I., Jan. 24th, 1884. 188

Thomas A. Edison,
65 Fifth Ave., New York City.

Dear Sir; -Your telegram, countermanding order No. 704, received, also a letter from Mr. Hastings inviting me to New York to consult with your engineer and draftsman, concerning the Central Station engines. Mr. Hastings desires me to make an appointment. This I will gladly do but prefer to await the return of Mr. Insull, which will be, no doubt, in a very few days. I would state, concerning the starting valves being bored out for 5 inch pipe, ~~we~~ immediately on receipt of your order, every valve we had on hand, was bored out and we changed the pattern putting on the flange and, in the future, you will have no trouble.

Respectfully yours,
G. C. Sims Supt.



HENRY HOWARD, President.
PARDON ARMINGTON, Treasurer.
GARDNER C. SIMS, Superintendent.
CHARLES T. HOWARD, Secretary.

WORKS
AT
546 HIGH STREET.

PROVIDENCE, R. I., Feb. 4th, 1884. 188

Thomas A. Edison, Esq.,
85 Fifth Ave., New York.

Dear Sir; -Your order by letter of Jan. 14th has been filled and your 8, I-2x10 engine at Fall River is now running 240 revolutions per minute, with two 48 inch pulleys. We sent our man to make the change which was completed Feb. 2d. We used part of the regulator on the engine, and desire to know what to do with the pulleys taken off. Will you have them sent to New York, or will you return them to us? If you return them we will credit your account, as no harm has been done them, and they can be used on the standard engine. If you wish to make the same change at Brockton, you will require one 48 inch regulator pulley as the driving pulley on our engine is 48 inches in diameter, 12 1/2 inch face. We wish you would assist us to recover the 8, I-2x10 engine, shipped Nov. 20th to Shamokin, Pa. After many efforts, we traced the engine to Shamokin and have written your company there to have it re-shipped to us. They do not answer our letters and it is quite a serious loss as it is nearly three months since the engine was shipped. Since commencing the letter, we have received word from Mr. Jenks of

T. A. E. 2.

Brockton that he would like a 48 inch regulator pulley for his
8, I-2x10 engine. We will commence work on it immediately and
hope to ship it Feb. 11th, and will send our man to make the
change. Thinking you may want to make other changes, we have
ordered one extra pulley anticipating your order.

Respectfully yours,

E. C. Sims
Supt.



Henry Howard, Pres.
Parson Armington, Treas.
Gardner C. Sims, Supt.

M. J. Moore, General Agent
They write letters because
neither you or anyone else have
ever given an explanation why the
government sticks at times, &
New York, July 25, 1884

Thomas H. Edison Esq.
65- Riffets Hob bldg

Dear Sir

I herewith return letter of
your man Leonard written from
New York and forwarded to New
York. I quite agree with Mr. Simon
who says, "I do not know what I can
say more than has been said to
them +++ when they have any trouble
they do not look for it but for
"Mits". I find by perusing Leonard's
letter you find in for your share
of complaints and the cause for such
complaint is as ridiculous to me as
the rope cure, for indeed verily you
are a man of remarkable
patience

Yours Truly
W. P. Moore
Genl Agent



WORKS
AT
546 HIGH STREET.

HENRY HOWARD, President.
PARSON ARMINSTON, Treasurer.
H. C. CRANSTON, Asst. Treasurer.
GARDNER C. BWS, Superintendent.
CHARLES T. HOWARD, Secretary.

PROVIDENCE, R. I., Feb. 7th, 1884

Samuel Insull, Esq.,

65 Fifth Ave., New York City.

Dear Sam; - I will leave here Friday morning about eleven o'clock, and hope to get to your office about five o'clock p.m. If you are not engaged, I would like to spend the evening with you, but if you are, I will go out to Roselle and call on you Saturday morning. Please leave some word for me.

Respectfully yours,

H. C. Cranston
J.

ARMINGTON & SIMS Co.,

PROVIDENCE, R. I., U. S. A.

HENRY HOWARD, President.
PARSON ARMINGTON, Treasurer.
G. C. SIMS, Superintendent.
C. T. HOWARD, Secretary.

WORKS
AT
545 HIGH STREET.

PROVIDENCE, R. I. *Feb 7th* 1884

Samuel Inoull Esq

65 Fifth Avenue N. Y.

Dear Sir

*Your returned favor
in the shape of Mr. Edison's
Catalogue duly received for which
accept my many thanks.*

Respectfully Yours

F. W. Hayward



Henry Howard, Pres.
Pardon Armington, Treas.
Garret C. Sims, Supt.

Mr. F. Moore, General Agent,

No. 15 Cortlandt Street,
Room 22.

New York, July 7th 1884

Thomas A. Edison Esq
65-71 West 125th St
New York

Dear Sir
Yours of 6th at hand, and
in reply would say I cannot under-
stand why you should say we have
never given you a reason for the
trouble experienced with our engines
We have in every instance that our
men at considerable expense to us
to remedy the trouble and invar-
ably our men report the trouble
as arising from ignorance on the
part of the men and charge of the
engine I cannot understand why all
the engines do not operate alike
as they are all built as near alike
as it is possible to do so Will you
and ask you when again at 65th
Yours Truly
F. J. Moore
Genl Agent.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been assumed to by the sender of the following message. Errors can be corrected herein only by repeating a message back to the sending station for correction, and the company will not hold itself liable for errors or delay in transmission or delivery of Unrepeated Messages, beyond the amount of tolls paid thereon, nor in any case where the claim is not presented in writing within sixty days after sending the message.

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERT, General Manager.

1884
MORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHECK
83	Col	GM	9/2

Received at **852 BROADWAY.**

July 4 1888

Dated *22 Providence R. I.*

To *Thomas A Edison*

65-5000

Our man started for Bellefonte
twelve o'clock Sunday night
Wilmington & Sims Eng Co

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.

THE WESTERN UNION TELEGRAPH COMPANY.

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THOS. T. ECKERT, General Manager.

MORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHECK
51	m	GM	9x4

Received at **852 BROADWAY.**

Feb 13 1888

Dated *13 Providence R. I.*

To *Thomas A Edison*

60 Fifth Ave

Telegram from Bellefonte wants Springs
to run Engine three fifty
me protest against speed. Engine
must run two seventy five

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.

G. C. Sims



WORKS
AT
546 HIGH STREET.

HENRY HOWARD, President.
PARDON ARMINGTON, Treasurer.
GARDINER C. SIMS, Superintendent.
CHARLES T. HOWARD, Secretary.

PROVIDENCE, R. I., Feb. 13th, 1884

Thomas A. Edison, Esq.,
85 Fifth Ave., New York City.

Dear Sir:—Your letter concerning contract for Central
Station work in Canada, received. We are now building our en-
gines at the John Holt Engine Co., works, Toronto, Canada, and
have several orders on hand. We will be able to meet your de-
mand there if you will give us a reasonable time, stating the
size of engines you may require. We have written Mr. [Name]
Your engineer writes me from Sunbury, Pa. that he has noticed
the lining metal ~~was~~ of the new crank pin boxes and did it in
just a half hour after starting and thinks the old boxes were
better as they were several months. We can merely say that we
make no change in our habits make and are confident that if
the engineer had given the crank pin sufficient expansion, he
would have had no trouble. We have just received a telegram
from Bellefonte, asking for springs to run a 1-2x1-1/2 engine 350
revolutions per minute. This we refused to do as the engine is
not designed for that speed and cannot be made successful. The
telegram states that the engine will run only 350 revolutions
per speed 1/2, of course 1/2. This is very easily explained. The
engine was successfully tested here running 350 revolutions

T. A. E. 2.

Your men undoubtedly wanted more speed so they immediately screwed down the springs causing them to set and become worthless making it impossible for the engine to regulate. This is a fatal mistake that all of your men make. When they desire to increase or decrease the speed, they either tighten the springs or slack them off, which makes it impossible for the engine to give regular speed. When we increase or decrease the speed, we add to the regulator weights or take off some of the weight but never interfere with the springs, and we are always successful and do not ruin the springs. Please instruct your men. One of our best men has gone to Bellefonte to put the engine in order again and we will ship a new pair of springs immediately. Have just received a letter from Mr. Dwelley asking for some person to indicate his engine as Mr. Doubleday has left Fall River. I shall write Mr. Dwelley that I should be pleased to indicate his engine and will do so next week making my report to the Fall River Co. as well as yourself. I will do this without any charge. We return you statement of account and separate bill as requested.

Sincerely yours,

H. C. Saint

*Have just received several telegrams from Bellefonte South
for new springs for engine No. 2. Men have no idea
how to set them, but what is terrible, setting more
in 1892 at that place. Found out when the trouble is
with the valve gear.*

ARMINGTON & SIMS Co.,

PROVIDENCE, R. I., U. S. A.

HENRY HOWARD, President.
PARDON ARMINGTON, Treasurer.
G. C. SIMS, Superintendent.
C. T. HOWARD, Secretary.

WORKS
at
546 HIGH STREET.

PROVIDENCE, R. I., Feb. 14, 1884

Dear Mr. Inull

I have just returned
from Lawrence and found your
telegram which was received 6.45 P.M.
We have some $9\frac{1}{2} \times 12$ engines that
run 300 revolutions per minute and
have done so for two years. If
you want your Bellfonte $9\frac{1}{2} \times 12$
engine to run 300 wire me and
I will make new springs and
ship immediately, and will wire
our man what to do.

Sincerely Yours

Gardiner



WORKS
AT
516 HIGH STREET.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

PROVIDENCE, R. I., Feb. 13th, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Ave., New York City.

Dear Sir:—We have several orders for 8, I-2x10 engines which we are unable to fill on time and must have the Shamokin engine which was shipped Nov. 20th, and you will please wire us if we shall send a man at your expense to return the engine. We have received very bad treatment at the hands of the Shamokin people, as we have begged them to send this engine and they have never noticed our letters in any way. If you can get hold of the engine, have it shipped immediately to the E. C. for I. L. 97 Sixth Ave., and inform us if you are successful. Much complaint has been made concerning the irregularity of the speed of our engines. We are about to make some changes whereby it will be impossible for your men to screw down the regulator springs and ruin them for further use. We will at all times, give the engines a thorough test here at our regular speeds, and wish it might be in your power to send a man to inspect our works. To make changes in the speed of our engines, hereafter, it will be necessary for your men to take our regulator to pieces and taking certain parts of it to a machine shop and make some changes. This you are at liberty to do but we hope

T. A. E. 2.

not until the engine has had a good test before these changes are made. Your first Central Station engine is finished and will go on our foundation for a test to-morrow. We hope to ship it about Thursday and as these engines are furnished at a reasonable price, we hope you will send for our man to come on to Goerke St and start them and make a success.

Respectfully yours,

H. B. Sims
Supt.

P. S. You will please tell our man at Bellefonte what to do as he has telegraphed for pulley and orders. We have no order for special pulley and do not understand what he means. We have directed him to await orders from you.

Respectfully,

H. B. Sims
Supt.

Form No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	RECV BY	CHARGE
<i>145</i>	<i>W. C. M. U. M.</i>		

Received at: **852 BROADWAY.**

Dated *Providence R.I. 18* *Set 18* *1887*

To *Saml Insull*

Co - same

Wednesday or Thursday instruct our man at Bellefontaine what to do

G. C. Sims

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., Feb. 19th, 1884. 188

Samuel Insull, Esq.,
65 Fifth Ave., New York City.

Dear Sir:- Your letter of Feb. 18th received and order given for pulleys which will be shipped about Feb. 27th. A new regulator will not be necessary, although certain parts of a new one will be sent in case it should be required, though we may have to return them. We have not yet found it necessary still we must be prepared. Our regular speed for this engine is 300 revolutions. Your first Central Station engine is running nicely on our foundation and we will indicate to-morrow, shipping it on Thursday. You will notice some changes and improvements, and we earnestly request that you send for our man to start the engine at Goerck St., and make a success of it. It will be necessary to send him to Newburg to make the change on your engine there, which will be a short job, and he can have an opportunity to assist you in making your station a success.

Respectfully yours,

Form No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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THEO. T. ECKERT, General Manager.

KORVIN GREENE, President.

NUMBER	SENT BY	RECD BY	CHARGE
3770	W. S.	W. H. Call	1216

Received at **852 BROADWAY.**

Dec 20 1884

Dated Providence R.I. 20To Thos Addison 65 5 avEngine for LondonNext Monday night shippedSpringo for Bellefante lastSaturday nightArrington & Sons

This telegram has just been received at the office in 852 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.

Engineer

WORKS AT
846 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., Feb. 20th, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Ave., New York City.

Dear Sir; -Your letter received. Flange on top of our starting valve for steam pipe connection, outside diameter 9,9-16 inches, one inch thick. Your telegram for 8, I-2x10 engine for London, received. The engine is now on foundation being tested; can be finished, boxed, and shipped Monday night, although it belongs to another man. Please send directions. Springs, to run Bellefonte engine 300 revolutions, were shipped last Saturday.

Respectfully yours,

Sims



WORKS
646 HIGH STREET

HENRY HOWARD, PRESIDENT.
FARDON ARMINGTON, TREASURER.
H. C. CRANSTON, AMT. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

PROVIDENCE, R. I. *February 7, 1884*

Thomas H. Edison Esq.
New York City
Dear Sir,

We have this day
forwarded by steamer of "Providence Line"
Engine No. 42 - 8 1/2" x 10" - to fill Foreign Order
No. 212" Enclosed herewith we hand
you bill and bill of lading and
remain

Yours very truly,
Thos. Howard
Sing

WORKS AT
548 HIGH STREET.



HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

PROVIDENCE, R. I., Feb. 27th, 1884. 188

Samuel Insull, Esq.,

65 Fifth Avenue, New York City.

Dear Sam: -Please enter the name of David S. Baker, Jr.
Butler Exchange, Providence, R. I. on your mailing list and
send him all the reading matter you may have concerning your
electric light business.

You may remember I introduced you to my friend Baker
after leaving Gov. Howard's office. Mr. Baker is a lawyer of
considerable prominence here and may be of service to you some-
time.

Sincerely yours,

Sims



WORKS
546 HIGH STREET.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

PROVIDENCE, R. I., *July 28* 1884.

Samuel Inoull, Esq.
Mrs. A. Edwin, Sonnetr. Dept.
New York City.
Dear Sir,

Your form of the
27th has been received and contents carefully
noted. We could this day to Mr. Corning
a new pair of Springs for the $7\frac{1}{2} \times 12$ "
engine which we hope will answer the
purpose. We do not understand exactly
what has been done to the engine, so can-
not tell what repairs or new parts may
be necessary until our men examine it
and make a report; then we will do all
in our power to correct anything that may be
wrong about it. Yours very truly,
Thos. Anderson

WORKS AT
540 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., March 1st, 1884 188

Thomas A Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir; -Your order No. 996 for two 57 inch pulleys,
10, I-2 inch face for 9, I-2x12 engines to run 277 revolutions,
received. Please refer to your order No. 704, for 57 inch pul-
ley, 9, I-2 inch face. This pulley was made at an expense of
about sixty dollars and is ready to ship. We have no use for
it and hold it on your account, as the order was countermanded
by telegraph, Jan. 23d. I do not want to commence on order 996
until I hear from you hoping you can use the pulley on order
704. We will send you a list of extra parts and prices for our
engine as you requested and will send foundation plans and full
particulars of the 11x14 engine next week. Our 11x14 should run
250 revolutions per minute, and although our standard pulley
will be 54 inches in diameter, we will increase or decrease it
to suit your convenience without extra charge. Our 8, I-2x10
engine should not run over 300 revolutions per minute, although
in many cases, you are running them successfully at 340. En-
closed find our new circular.

Respectfully yours,

G. C. Sims
Supt.

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENL. AGENT,
NO. 15 CORTLANDT STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANETON, ASST. TREASURER.
GARDNER C. SIMS, REPRESENTATIVE.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., March 4th, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir; -8, I-2x10 engine shipped to Shamokin Nov. 20th was returned to us yesterday in very bad condition. It was not broken in any way, but very badly rusted as no care seems to have been taken of it. We will immediately put it in shape and ship it to the Globe Democrat, St. Louis. Enclosed find copy of letter received from John Doty, Toronto, Canada. One of our draftsmen is now there and we will send one of our best mechanics in a few days. The competitors of Mr. Doty have had considerable to say about his work which was an unkind thing to do, but he proposes to put his best efforts into the work and will produce as good engines as we do. Our Mr. Kenyon left last night to start the Central Station engines at Goerck St.. You will consider him under your directions, and as you order changes of pulleys and regulators at Newburg, you will please send him there to make the changes and see that the engine runs to your satisfaction.

Respectfully yours,

G. C. Sims

[ENCLOSURE]

Copy.

John Doty Engine Co.,
Manufacturers of the Armington & Sims
Automatic Cut Off Steam Engine.

Toronto, Feb. 28 1884

G. C. Sims, Esq.,

Dear Sir;

I am in receipt of your favor of the 26th inst. and in reply would say that I certainly feel indebted to you for the kindly interest you are taking in promoting the Canada business of the A & S Engines and in the assistance you are giving me. I am much pleased with Mr. Hayward and I have every confidence in him and think he will assist me very materially in getting out the work. I feel rather annoyed that people should represent to you that we cannot turn out the work properly here particularly as these parties have never seen the inside of my shop and the quality of work I am putting on these engines. However I feel that my reputation is at stake now and all I ask is a fair chance to show them what I can do.

Mr. Hayward informs me that Mr. Moore and Mr. Wright will pay us a visit shortly. I shall be much pleased to see them and show them what we are doing and I regret very much that you cannot come on yourself. I am using every channel to advertise the A. & S. Engines and expect to have a boom before long. I have a number of enquiries for 6 I-2'x 8" and 8 I-2'x 10"

[ENCLOSURE]

Engines and if you can send me on the blue prints or drawings I shall put a large staff of men to work on the patterns and have some put under construction. Your suggestion about sending Mr. Littlefield I think a good one, and as soon as I can get some material ahead I will write you to send him. I intend so far as I can to put men on the A. & S. Engines and keep them steadily employed at them so that they may be thoroughly drilled into their work. As soon as I can afford it I want to extend my machine shop and have a flat or two set apart for this work alone, by this means we will be able to work to better advantage than where other branches of engine work are mixed in. I shall be pleased to hear that you have shipped the 20x30 castings. By having this engine set up in the shop under construction it would be a good card.

Yours truly,

John Doty.

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 16 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. GRANITON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., March 4th, 1884. 188

Samuel Insull, Esq.,

65 Fifth Avenue, New York City.

Dear Insull:—Your telegram just received and I immediately communicated with Gov. Howard at his residence, Harrisville. The Governor took a severe cold on his return from New York and is now quite sick, and it may be several days before he will be in his office. I will go out there to-morrow night and talk the matter over with him and arrange for a meeting of our directors to act on your telegram. You will understand that when you build the engines, it will take a large part of our business away from us and I would like to have you make a contract with us, say for five years, you to build all the engines you may require for your own business. You will, of course require full sets of patterns and special tools, and after making the investment, I think you will not care to make a contract for a short period. Please think this matter over carefully and write me your views plainly; I will in turn be frank and fair with you, knowing that we can hitch up in a very short time. Believe me

Sincerely yours,

Sims

WORKS AT
540 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
NO. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
FARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., March 5th, 1884. 188

Mr. Samuel Insull,

65 Fifth Avenue, New York City.

My Dear Insull:—I thank you for the photographs of Mr. Edison and will present one to Gov. Howard with your compliments. We will at once ship the finished pulley to Middletown, Ohio, and will start on the patterns for the regulator pulley immediately. Our stock of special pulleys on hand is worth about fifteen hundred dollars. We seem to have accumulated many odd sizes. If you can agree on a standard, I will have them made and hold them in stock.

I will write our Mr. Tosney to-day concerning the speed of the engine, and I do not understand why he does not make it satisfactory at once.

Sincerely yours,

WORKS AT
548 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., March 6th, 1884. 188

Mr. Samuel Insull,

65 Fifth Avenue, New York City.

Dear Sir: -Your telegram concerning new springs for
Bellefonte engine received and two sets forwarded. You speci-
fy the speed to be 325 revolutions. This is a mistake, and
the time is not far distant when you will seriously regret it.
I went out to see Gov. Howard last night and found him very
sick indeed, and fear it will be sometime before he is able
to attend to business. He leaves here on Monday next, if he
is able, at eleven o'clock and will stop at the Fifth Avenue
Hotel over night. His entire family accompany him, and they go
to Atlantic City for two weeks. I shall see him again before
Monday and will write you.

Respectfully yours,

Sims

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., March 7 1884

Dear Sam

In my room sick again
but hope to be out in a day or two.
I have a terrible cold. Bro. Howard
is very sick.

Our Mr. Remyer now at
Bank St. testing 14 1/2 x 13 engines writes
that he will leave a day or two before
second engine is ready and can go to
Newburg. You have ordered new pulleys
and Remyer had better go and fast
change regulator from one pulley to
the other.

I have written him that he
was making for you and under your
orders until you sent him home. Believe
me

Sincerely Yours
Gardner



WORKS
AT
545 HIGH STREET.

HENRY HOWARD, PRESIDENT.
PARDON ARINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

PROVIDENCE, R. I., *Feb 8 1884*

Samuel Ingersoll Esq.
New York City.
Dear Sir,

We send to you
to-night by Adams Express two (2) paper
templates of bed for 11" & 14" engines.
Will you please hand one of them
to Mr. Schaffer of the Isolated Lighting
Co. Our draftsmen are at work
on the drawings for engines of this
size and we will send them to you
as soon as possible.

Yours very truly,
Thos. Ardrew.
Sims

WORKS AT
546 HIGH STREET.



M. F. MOORE,
CHIEF AGENT,
No. 16 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., March 13th, 1884 188

Samuel Insull, Esq.,

65 Fifth Avenue, New York City.

Dear Sir; -Gov. Howard left yesterday for Atlantic City and seems much broken in health. I fear it will be some time before he is able to attend to business. If you will go out there with me for a day, I will promise you a grand good time. Let it be understood that we go strictly on business, but at the same time you will have an opportunity to make the acquaintance of several young ladies from Providence.

I send you by this mail, two blue prints of IIX14 engine. Please send one of them down to Scheffler. My next visit to New York, I shall avail myself of your kind invitation and stop with you in your new home.

Our standard pulley for IIX14 engine is 54" diameter, II' face. We have not made them but are waiting to hear from you what your standard pulley will be; then we will make them as the pulley business has become an expensive factor to us.

Respectfully yours,

H. C. Sims, Supt.
J. C. Co.

Form No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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This is an UNRECEIVED MESSAGE, and is delivered by request of the sender, under the conditions named above.

TIGGS, T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHARGE
950	Rj	WJ	503

Received at **854 BROADWAY**

Mch 13

1884.

Dated

Providence R.I.

To

Sam'l Insull

65-5 Ave N.Y.
 Kenyon read his order from
 Your Company not from Moore
 Amington & Insull

This telegram has just been received at the office in 854 BROADWAY, just below-Fourteenth Street, where any reply should be sent.

DIRECT WIRES.

WORKS AT
548 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

HENRY HOWARD, President.
FARDON ARMINGTON, Treasurer.
H. C. CRANSTON, Asst. Treasurer.
GARDNER C. SIMS, Superintendent.
THEODORE ANDREWS, Secretary.

PROVIDENCE, R. I., March 14th, 1884. 188

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir; - In answer to your telegram would say, that our Mr. Kenyon reports as follows: He went to the office of Mr. Moore for instructions and found a note on the door saying Mr. Moore would not return until Friday. He then went to 65 Fifth Avenue for orders, and I judge from his description, that he saw Mr. Tate. Mr. Kenyon thought it was unnecessary for him to remain in New York at your expense unless he had something to do, and Mr. Tate was of the same mind; so Kenyon returned. If you want him, telegraph, and we will send him on.

We thank you for your order for I4, I-2xI3 engine and will put it on the foundation to-morrow, hoping to ship it to Mr. Rich about Wednesday next. We have another engine of this size finished and four others nearly so.

Respectfully yours,

G. C. Sims
Supt.

Form No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been accepted to by the sender of the following message. Errors can be guarded against only by repeating a message back to the sending station for comparison, and the company will not hold itself liable for errors or delays in transmission or delivery of unrepeatable messages, beyond the amount of toll paid thereon, nor in any case where the claim is not presented in writing within sixty days after sending the message.

This is an UNREPEATABLE MESSAGE, and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHECK
136	in	R. H. P. A.	My

Received at **854 BROADWAY**

Mar 19 1884.

Dated Providence R. I. N.Y.

To Saml Insull N.Y.

Kenyon is here do you want
him have written young
G. C. Sims

This telegram has just been received at the office in 854 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.

WORKS
548 HIGH STREET.



HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. G. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

PROVIDENCE, R. I., March 20th, 1884.188

Samuel Insull, Esq.,

65 Fifth Avenue, New York City,

Dear Sir:—Your I4, I-2xI3 engine for Piqua, Ohio, will leave here by the way of the N. Y. & N. E. R. R., to-morrow afternoon. We have sent you one of the best running engines that we have ever turned out and hope you will order our man to start it up. We have a duplicate of this engine, which was finished for Williamsport, nearly finished. If you think you will want it soon, please let me know so that we may test it at once and ship immediately on receipt of order. Business continues good.

We get bad news from Mrs. Armington, and Frank thinks of going to England to bring his father home. Gov. Howard is still at Atlantic City very sick, and desires me to go and see him. It is my intention, now, to leave here Tuesday at eleven o'clock, calling at your office in the afternoon about five o'clock. I will write you again.

Respectfully yours,

Sims

Form No. 1.

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THOS. T. ECKHART, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	RECEIVED BY	CHECK
H46	Mo	Day 11	Coll

Routed at **854 BROADWAY.**Dated *Providence R D 70* *Mar 70* 1884.To *Thos A Edison**65-5 Ave**Engines for jiquai ready for shipment will be shipped tomorrow**Arrington to Sims Eng*

This telegram has just been received at the office in 854 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.



HENRY HOWARD, PRESIDENT.
HAROLD ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

WORKS
AT
516 HIGH STREET.

PROVIDENCE, R. I., *March 21, 1884*

Thomas A. Edison.

Construction Department,

New Sic.

Yours of 20th inst.
received and as requested I enclose with same
Credit vouchers for Sept. Subscribers. I
also enclose bill of Exchange No. 32-14/2 x 1/3-
which has this day been shipped to
W. D. Rich, Cigna, Ohio. I regret to
say that the duplicate bill of lading
has been brought back to us without
signature and that it is too late to
have the mistake corrected. Will attend
to it tomorrow and forward by evening
mail.

Yours very truly,
Thos. Edison.
Secy.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
NEW YORK

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., *March 25 1884*

*Thomas A. Edison, Esq.
New York City.*

Dear Sir,

Enclosed herewith please find bill of lading for Engine No. 32 - 11 1/2" x 13" - shipped yesterday to Ciguas, Ohio. You will notice that this is billed as a car load - 20.00 lbs - which @ 32¢ pr. 100 lbs. amounts to 6.40, whereas the actual weight - 10,000 lbs. at 1st class rate, 70¢ pr. 100 lbs. would amount to 7.00. A saving of 60¢. Trusting all may be satisfactory to you I remain

*Yours very truly,
Theodore Andrews*

Secy



WORKS
AT
546 HIGH STREET.

HENRY HOWARD, PRESIDENT.
PARSON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
CHARLES T. HOWARD, SECRETARY.

PROVIDENCE, R. I. *March 29* 188*4*

Dear Sirs

*I cannot get away on
Sunday as I expected and must
stay and attend to business. We
now have two 14 1/2 x 13 engines
and can dispose of them soon.
If you will give me some
idea of your business I will
order castings and commence
on another lot so that I may
not disappoint you if you
give us an order.*

*Letter received
from Mrs. Amington yesterday states
that Amington is no better.*

Sincerely Yours

Sims

WORKS AT
548 HIGH STREET



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARSON ARMSINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

draft

PROVIDENCE, R. I., April 2d, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir:—As the English patents of our engines are not owned by this company and we are about to make a return, will you have the kindness to send us a list of all the engines that have been shipped to European countries, and, if possible, will you kindly give us the owners name and the location, and oblige

Respectfully yours,

G. C. Sims
Supt.

WORKS AT
546 HIGH STREET.



M. J. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., April 4th, 1884.

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir; -Your letter, together with letter of Webster & Co., Hartford, Ct., concerning their "Disc Engine Cylinder Oil", received. The testimonial from the Colts Patent Fire-arms Manufacturing Co., is indeed a very good one, although they say they have used the oil several months. Not having heard of it before, of course, I know nothing about it and could not give it my indorsement. As the oil business is very deceptive, the better way to buy is from some house of excellent reputation. Our experience has been, by no means, limited and the results obtained in many cases with inferior oils have been disastrous.

I think it is now nearly three years since we commenced to use Vacuum Oil. We have never had occasion to regret it as it has, at all times, given us perfect satisfaction.

The price of their Cylinder oil is, I believe, 60 cts and the price quoted by Mr. Webster is 35 cts. With some engineers it would make no difference whatever whether the oil cost 10 cts. per gallon or \$1.25, they would use the same a-

T. A. E. 2.

mount in both cases. I would not care to make any changes as the result might be very serious and, at present, I know of no oil for the price that I could recommend as highly as the Vacuum Oil.

Respectfully yours,

G. D. Lind

Supt.

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARDON ARNINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SINS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., April 11th, 1884

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir; -Your letter of April 10th received. Mr. Jenks telephoned from Brockton yesterday asking me if I would visit them and give them some assistance concerning the setting of the engine, together with the location of the steam and exhaust pipes. I leave here at one o'clock spending the night at Brockton. Possibly, I may meet Mr. Garrison there and will certainly make some arrangements with him for the payment of the engine which will make it quite easy for them, and, at the same time, facilitate your business as well as ours.

You know I am always ready and willing to do my level best for you, and you will be satisfied with the terms of the settlement.

Respectfully yours,

G. C. Sins



WORKS AT
546 HIGH STREET.

M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I. *April 13* 1884

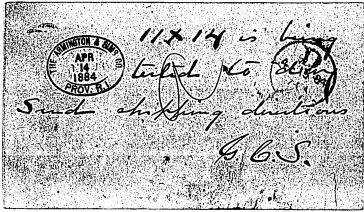
Dear Sam:

I went to Prokater and found that foundation for new engine can be put in without moving exhaust pipe of present engines. Work will be commenced tomorrow I furnish foundation bolts plates &c. Cast iron foundation plate was sent on firm N.Y. by your order.

Saw Mr. Gamins. He will send us on May 1st check for \$1000 and four months note for balance. He will give him best 30 days terms. I can see the note immediately and the terms are satisfactory. Remember me to "Sir Thomas"

Sincerely Yours
Sims

[TO SAMUEL INSULL]





WORKS AT
545 HIGH STREET.

M. F. MOORE,
General Agent
No. 15 CORTLAND STREET,
New York.

HENRY HOWARD, President.
PARSON ARMINGTON, Treasurer.
M. C. CRANSTON, Asst. Treasurer.
GARDNER C. SIMS, Superintendent.
THEODORE ANDREWS, Secretary.

PROVIDENCE, R. I., April 15th, 1884

Samuel Insull, Esq.,

65 Fifth Avenue, New York City.

Dear Insull; -Enclosed find confidential letter from W. N. Stewart which you will please return. I have not answered it and shall, of course, be guided by your reply. What would you advise?

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

Superintendent.

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., April 17th, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir: -A. Stuart of Cincinnati has just sent us an order for a 14, 1-2x13 engine to be shipped to Circleville, Ohio. We have sold this engine for list price but furnish foundation bolts, washers, plates, nuts, and plans; also send our man to set up and start engine, they to pay board bill and travelling expenses only. Mr. Stuart orders a cast-iron foundation plate. This, you will please ship as soon as possible to Mr. C. B. Story, Circleville, Ohio, sending your bill to Mr. Stuart at Cincinnati. We hope to have this engine ready to ship April 26th.

Your letter of April 16th concerning the shipment of engines to Mr. W. N. Stewart, Santiago, Chili is quite satisfactory and I agree with you. I will write Mr. Stewart to that effect, leaving the rest to you.

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

Superintendent.

*The Edison and Swan United Electric Light Company,
Limited*

ALL LETTERS
TO BE ADDRESSED TO
THE SECRETARY.

TELEGRAPHIC ADDRESS-

*Edison
London*

57, Holborn Viaduct,

London. 54TH APRIL, 1884

E. C.

T. A. EDISON ESQ.,
65, FIFTH AVENUE,
NEW YORK, U. S. A.

DEAR SIR,

CRITERION ENGINES.

I SEND YOU A LETTER WHICH I THINK SHOULD BE FORWARDED TO
MEGERS ARMINGTON & SONS, AND IF YOU APPROVE I SHOULD BE GLAD IF YOU
WOULD FOLLOW THAT COURSE. I AM AFRAID THE MATTER REFERRED TO MAY
EXERCISE AN INFLUENCE ADVERSE TO THE INTERESTS OF THIS COMPANY. MEGERS
SPIERS & POND ARE LIKELY TO BE LARGE CUSTOMERS OF OURS IN OTHER DIRECTIONS
AND IT IS A MATTER OF IMPORTANCE THAT WE SHOULD TREAT THEM WITH PERFECT
FAIRNESS.

I AM, DEAR SIR,

YOURS TRULY,

J. R. [Signature]
SECRETARY

ENCLOSURE

The Edison and Swan United Electric Light Company
Limited

57, Holborn Viaduct,

London, 188
E.C.

ALL LETTERS
TO BE ADDRESSED TO
THE SECRETARY.

TELEGRAPHIC ADDRESS:-

Edison
London

TO GET THE ENGINE TO WORK SO FAR IN A FAIRLY SATISFACTORY MANNER, WE
DO NOT CONSIDER THAT IT IS EITHER CREDITABLE TO YOU OR POOR TREATMENT
TO US TO SEND AN ENGINE IN SUCH A CONDITION, AND WE ANTICIPATE THE PUR-
-CHASERS, WHEN THEY TAKE OVER THE ENGINE AND EXAMINE IT CAREFULLY, WILL
EXPECT US TO MAKE THEM A CONSIDERABLE REDUCTION IN CONSEQUENCE OF THE
DEFECT. EVEN IF THEY DO NOT IT IS PRESENTLY UNSATISFACTORY. WE
MAY ADD THAT OTHER DETAILS OF THE ENGINE, SUCH AS THE OIL LUBRICATOR,
BEAR MARKS OF HAVING BEEN PUT TO CONSIDERABLE USE PREVIOUSLY, AND WE
CANNOT HELP THINKING THAT THE ENGINE HAS NOT ABSOLUTELY NEW UNDER BODY
TO US OR ELSE THAT IT HAS BEEN PUT TO VERY UNFAIR TREATMENT.
WE SHOULD BE GLAD TO HEAR FROM YOU AT YOUR EARLIEST CON-
-VENIENCE WHAT YOU WOULD BE DOING IN THIS MATTER.
I AM, DEAR SIR,

YOURS FAITHFULLY,

J. Edward Peck

SECRETARY.

YOUR CAREFULLY SCRAPPED

ALTHOUGH HE SAYS, OF

WORKS AT
846 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
NO. 15 COSTLYND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. O. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., April 24th, 1884.188

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir:—Your letter of April 22d received. Gov.
Howard and myself will call on you before his departure for
Europe, concerning the building of our engines.

I will write Mr. Moore by this mail and ask him to
call and see you concerning this matter.

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

Superintendent.



WORKS AT
646 HIGH STREET.

M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
FARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I. April 25th, 1884

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York.

Dear Sir:—Your letter of April 23d
with enclosure received. The measurements
for the IIX14 engine have been added to the
table.

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

Superintendent.

STENOGRAPHIC.

Be sure to-

**Read you kindly read the attached letter from Mr. Gino,
and return the same attention from other answers and have re-
sponded that the money has been returned to you for explanation.
and you should write to Mr. Gino and explain the same.**

J. S. H. H. H.

April 26th, 1884.

per G.

Make an explanation why it is so long



M. F. MOORE,
SEVERAL AGENT,
No. 16 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDINER G. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., April 26th, 1884.188

Samuel Insull, Esq.,

65 Fifth Avenue, New York City.

My Dear Insull:—Your several letters have been received and we expect to ship the IixI4 engine to Bellefonte Monday afternoon.

We notice in the papers that an Electrical Exhibition is to take place in Worcester about May 2d, and that Mr. Edison and Major Eaton are expected to be present. If this is so, I hope you will accompany them and send me word so that I can meet you and have a talk with Mr. Edison concerning the building of our engines. I should be pleased to have you come this way and spend the night with me, as trains run frequently to Worcester and I would go there with you.

I am much pleased with the letter of Mr. Conant and think he understands our engine very well. I have had some very good reports from Newburg. At one of your stations in Ohio where our engine was driving two dynamos, it slipped the belt on one, causing a flickering of the lights. The pulleys on your engines are turned on centers, both inside and out, and there is no good reason why they should not run true.

S. I. 2.

In many cases the driving of the key will sometimes throw them out. Mr Conant has had excellent success and if some fault-finding person had not been present, I quite agree with him that no bad report would have reached your ears.

Sincerely yours,

Sims

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THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHECK
271	Colm	Collect	530

Received at **854 BROADWAY**

Dated

To

Providence R.I.
Thomas A. Edison

Will make patterns and furnish
cap plate in two weeks
Armington & Sims Engine Co

This telegram has just been received at the office in 854 BROADWAY, just below Faneuil Hall Street, where any reply should be sent.

DIRECT WIRES.

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
New York.

HENRY HOWARD, President.
PARDON ARMINGTON, Treasurer.
H. C. GRANSTON, Asst. Treasurer.
GARDNER C. SIMS, Superintendent.
THEODORE ANDREWS, Secretary.

PROVIDENCE, R. I., May 8th, 1884. 188

Thomas A. Edison, Esq.,

35 Fifth Avenue, New York City.

Dear Sir:—Your letter of May 8th, together with extracts from letter of the Edison-Swan Co., London, received. We do not doubt for a moment that the condition of the engine when this letter was written, was as described. From our book we find it to be a 13x13 shipped August 8th, to the Criterion Theatre, London. The engine, like all others which you have ordered, was thoroughly tested before shipment and was in the best possible condition when it left us. By referring to the letter you will see they ran the engine a short time and had continued trouble with the cylinder firing. This was from want of proper lubrication and is not an uncommon thing.

As there is no wear whatever on the top slide bars and the engine would run without them, the cause of the cutting was occasioned, no doubt, by dirt and should not have happened. In all cases of trouble with the engine, it is but natural to speak of inferior workmanship and lay the blame upon the builders of the engine. In many cases the engines are started against our orders, and are frequently broken and smashed be-

T. A. E. 2.

fore our men can get to them. The Sight Feed Lubricator was tested on the engine here and was new, never having been used. The criticism is not a fair one and I shall ask our Mr. Armington to go and look this engine over immediately, and wish you would also ask for a careful investigation, finding out who started the engine. I hope to go to London during the month of June and will certainly give this matter my attention.

Respectfully yours,

Armington & Sims Engine Co.

B. C. Sims

Superintendent.

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 16 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., May 12th, 1884. 188

Samuel Insull, Esq.,

65 Fifth Avenue, New York City.

Dear Sir:—Your letter with indicator cards received which I pronounce very poor indeed and are unlike anything of which we are capable of producing here. Not knowing the conditions under which they were taken, it would be hard to tell the cause of the poor admission of steam.

I leave here to-night by steamer for New York and will breakfast with Gov. Howard and his family at Fifth Avenue Hotel, Tuesday morning. I will call and see you as early in the day as possible.

Sincerely yours,

Sims

S

The Edison and Swan United Electric Light Company,
Limited

ALL LETTERS
TO BE ADDRESSED TO
THE SECRETARY.
TELEGRAPHIC ADDRESS -
Edison
London

57, Holborn Viaduct,
London. 20TH MAY, 1888
E. C.

T. W. EDISON ESQ.,
65, FIFTH AVENUE,

NEW YORK.

DEAR SIR,

I beg to acknowledge the receipt of your letter of 27th
instant enclosing copy of one from Messrs. Arrington & Sons of the 2nd
instant, with reference to the exhibition engine which shall have our
attention.

I AM, DEAR SIR,

YOURS TRULY,

SECRETARY

* We shall be glad to see either of these
gentlemen when they are in England.



HENRY HOWARD, President.
PARDON ARMINGTON, Treasurer.
H. C. CRANSTON, Asst. Treasurer.
GARDNER C. SIMS, Superintendent.
THEODORE ANDREWS, Secretary.

M. F. MOORE,
General Agent,
No. 15 CORTLANDT STREET,
NEW YORK.

PROVIDENCE, R. I., May 29th, 1884.

Samuel Insull, Esq.

65 Fifth Avenue, New York City.

My Dear Insull:—Your favor of May 23d concerning the agency for our engines in South America received. We should be pleased to make some arrangements, and I assure you that nothing will be done without consulting you. When I next visit New York we will talk the matter over. Believe me,

Sincerely yours,

G. C. Sims

E



J. P. ARMINGTON & SONS, CABLE COMPANY.
JESSE HOWARD, PRESIDENT.
HAROLD ARMINGTON, TREASURER.
H. C. CRANSTON, MANAGING DIRECTOR.
GARDNER C. SMITH, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

W. F. MOORE,
GENERAL AGENT,
No. 154 BORTLANDT STREET,
NEW YORK.

PROVIDENCE, R. I., June 26, 1888

Thomas A. Edison, Esq.,
35 Fifth Avenue, New York City.

Dear Sir: In answer to your second telegram concerning the
matters mentioned in your first telegram, we have
been unable to find a cable pulley to run 300 revolutions per minute
for the purpose of the Steamer City of Para, June 7th, 1888.
The pulley is to be made and we have commenced work on it. It will
be ready in a few days. As you did not mention the
diameter of the pulley, we have made it our
best estimate.

Sincerely yours,

G. C. Sims

[Handwritten signature]

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THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	REC'D BY	CHECK
166	Co	27 M	

Received at **854 BROADWAY.** June 13 1884

Dated

To

of Providence R.I.
 Thomas A Edison
 Co save
 Have worked all night and
 pulley will be cast today
 nine one half inch face
 if this will not answer

This telegram has just been received at the office in 854 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.

Form No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERT, General Manager.

NORVIN GREEN, President.

NUMBER	SENT BY	REC'D BY	CHECK

Received at **854 BROADWAY.** June 3 1884

Dated

To

2
 Cannot get Engine out on
 time answer
 Arrington & Sons
 Eng

This telegram has just been received at the office in 854 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.



HENRY HOWARD, PRESIDENT,
 WILSON ARMYINGTON, TREASURER,
 H. C. GRANSTON, ASST. TREASURER,
 GARDNER C. SIMS, SUPERINTENDENT,
 THEODORE ANDREWS, SECRETARY.

M. F. MOORE,
 GENERAL AGENT,
 NO. 15 CORTLAND STREET,
 NEW YORK.

PROVIDENCE, R. I., June 3d, 1884. 188

Thomas A. Edison, Esq.,
 55 Fifth Avenue, New York City.

Dear Sir: Your letter of June 2d and requisition of the same date, No. 1293, received. Your telegram of yesterday calls for 53" pulley 300 revolutions. Mr Moore's letter of yesterday specifies the same. Your letter and requisition call for 35" pulley, which is correct. On receipt of your telegram, our pattern maker's immediately went to work on the core boxes, sweeps, etc., for 53" pulley, and, after working part of the night, got them into the foundry, and the moulders worked the remainder of the night so that the pulley can be poured this afternoon. It will have a 1-2" face.

As soon as it comes out of the sand, we will put it in our pulley lathe and finish immediately. If it is wrong, of course, we cannot help it and will make 35" pulley if you desire it. Please telegraph us immediately as we cannot stop working on the pulley thinking your telegram and Mr. Moore's letter are correct, while the requisition and letter of June 2d are wrong. You will find the engine well boxed for shipment and will ship to Goerck Street as you request.

Respectfully yours,

G. C. Sims

General Manager.



M. F. MOORE,
GENERAL AGENT,
NO. 15 COSTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT,
PARSON ARMINGTON, TREASURER,
H. C. CRANSTON, ASST. TREASURER,
GARDNER C. SIMS, SUPERINTENDENT,
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., June 4th, 1884. 188

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir:—Your telegram concerning 58" pulley for
S. I. 2x10 engine received. The pulley is now in the lathe be-
ing turned and will be finished sometime during the night. The
engine is now on the foundation being tested and will be fin-
ished this evening. You can depend on shipment by New York
boat Friday night.

As the days have increased in length to twenty-eight
hours, we have had sufficient time, but, had we been working
under the old standard, twenty-four hours, we would not have
had time enough.

Respectfully yours,

Armington & Sims Engine Co.

General Manager.



M. F. MOORE,
GENERAL AGENT,
No. 15 CHATELAIN STREET,
New York.

HENRY HOWARD, President.
PARSON ARMINGTON, Treasurer.
H. C. CRANSTON, Asst. Treasurer.
GARDNER C. SIMS, Superintendent.
THEODORE ANDREWS, Secretary.

PROVIDENCE, R. I. June 5th, 1884. 188

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir:—Your telegram asking if engine was shipped received at 1:12 P.M. At the present writing, Sir, we have finished testing the engine and will commence immediately to box it, shipping Friday night by steamer and you should find it on the dock in New York Saturday morning 'D. V.'

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

General Manager.



WORKS AT
546 HIGH STREET.

M. F. MOORE,

NO. 15 CORTLAND STREET,
NEW YORK.

List of Articles

HENRY HOWARD, President,
PARSON ARMINGTON, Treasurer,
H. C. GRANSTON, Asst. Treasurer,
GARDNER & SONS, 445-447
THEODORE ANDREWS, Secretary.

one monkey wrench, one
one valve, two sets of screws, one

PROVIDENCE, R. I., June 8th, 1884.

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir: Enclosed find list of ar-
ticles sent with 6, 1/2 hp engine, shipped
this day to the Edison Machine Works, 104
Goerck St., for South American shipment.

You will find the weights of these articles
on bill of lading.

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims
General Manager.

List of Articles.

Box A. - contains engine, one monkey wrench, one socket wrench, two open end wrenches, two keys for regulator and balance wheel, three globe valves, two sets of screws, one set of wire pers complete for engine, four No. 2 oil cups, one eccentric oiler and cup, two brass oil cups for regulator, eleven machine screws 5-16" diameter, one cylinder oil cup, one set of oil guards for disc, one eccentric rod, one eccentric and one starting valve. Dimensions of box 92, 1-2"x33"x30". Weight 4075 lbs. Immediately to the way to the engine machine works, 101 Grand St., New York American Experiment.

Box B. - contains one shaft and disc. Dimensions 42"x24"x56". Weight 585 lbs.

Box C. contains one regulator pulley. Dimensions 42"x42"x10". Weight 364 lbs.

Box D. - contains one cast iron wheel. Dimensions 56"x56"x11". Weight 900 lbs.

General Manager.



WORKS AT
546 HIGH STREET.

M. F. MOORE,
CASHIER,
No. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, President,
PARSON ARMINGTON, Treasurer,
M. C. GRANITON, Asst. Treasurer,
GARDINER C. SIMS, Superintendent,
THEODORE ANDREWS, Secretary.

JUN 6

PROVIDENCE, R. I., June 6, 1884

Dear Sir,

I have the honor to acknowledge the receipt of your letter of the 5th inst. in relation to the day for sending the "Providence Breeze" to the office of the Providence Journal, and in reply to inform you that the same will be sent to you on the 8th proximo, by express for shipment to La Grange, N. Y., by order No. 1293.

*I am, Sir, very respectfully,
Yours very truly,
Theodore Andrews,
General Manager.*

Secy

WORKS AT
546 HIGH STREET.



M. F. MERRILL
GENERAL AGENT
No. 15 CORNHILL STREET
NEW YORK.

HENRY HOWARD, President
PARDON ARMINGTON, Treasurer
H. BRANSTON, Asst. Treasurer
SAMUEL C. SMITH, Superintendent
MORDECAI ANDERSON, Secretary

*What was the matter on
June 13th, 1884
shall take on
this engine*

PROVIDENCE, R. I., June 13th, 1884. 188

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir:—Your letter of June 12th received. The two
8, I-2x10 engines at Shamokin could be shipped to the Machine
Works at Goerck Street, and our man sent on to change the reg-
ulators so that they will run at their rated speed, 300 revolu-
tions per minute. The engines could then be used by the Isol-
ated Lighting Company. The man we sent to Shamokin was the on-
ly one in our employ at the time that could be sent and we did
the best we could under the circumstances. If you desire, we
will send the best man we have to Shamokin to run this engine
and we guarantee it to be satisfactory. You are aware that
from the first we protested against 350 revolutions, but, as
the engines at Lawrence, Brockton, and Fall River and other
places run well, there is no good reason why the Shamokin en-
gines should not do the same.

If you prefer to re-ship the engine to us, we will
receive them, putting them in first class order, charging you
the cost of the work only. These engines were shipped June
13th and 16th, 1883, and have been in use about one year.
Respectfully yours,

Armington & Sime Engine Co.

E. C. Sime

General Manager.

WORKS AT
54 1/2 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., June 17th, 1884. 188

Samuel Insull, Esq.,

65 Fifth Avenue, New York City.

My Dear Insull; -Your letter of June 16th received and I shall write to Gov. Howard to-day giving my views concerning the building of our engines by Mr. Edison, and advise the acceptance of \$1.30 per H. P. royalty. I would be pleased to have Mr. Edison make us a proposition and will forward copy of it at once to Gov. Howard, and bring the matter before our people here. I have received two letters from our man at Newburg and will write Mr. Edison to-day concerning the engine.

If it will facilitate matters at all concerning the building of our engines, I can go to New York at your convenience, leaving here by steamer at night only being away from my business one day. I am very anxious that whatever terms we make, shall be entirely satisfactory to Mr. Edison and shall use my best efforts to make them so.

Respectfully yours.

Insull

June 17th, 1884.

Samuel Insull, Esq.,

Dear Sir:-Enclosed find letter just received from Mr. Ar-
mington which you will please return.

It is a very good report and it may be possible that
the objections made to you were for the purpose of securing a
reduction of your bill.

Sincerely yours,



WORKS AT
546 HIGH STREET.



HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SINS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

PROVIDENCE, R. I., June 18th, 1884.

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir:-Your letter of June 17th concerning Shamokin engines received. We realize that it is for our interest to have the engines run well and we are now prepared to send one of our best men, together with a mechanical expert of reputation who will take his indicators along and make a thorough test. The simplicity of the engine and our good workmanship will prevent it from meeting with any serious difficulty, provided it has had good care, and we agree to put the engines in first-class order at our expense.

The Shamokin people have written us that the engines are overloaded, and you have our protest from the first order you gave us for these engines, at 350 revolutions. As the engines work well at your other stations, we will make them work to your satisfaction at Shamokin. If they are too small for the load and are over-loaded, we shall have it reduced until it comes within the capacity of the engine.

We are not willing they should come out under any conditions whatever unless they should be too small, and we

T. A. E. 2.

again guarantees to put them in condition without expense to you no matter whether it is the fault of your men or not. If you desire to have this done, notify us and we will commence immediately. The writer would like very much to meet you in Shamokin when the test is made.

Our man is now at Newburg and has written us every day concerning the engine which has been shamefully treated. Our foreman will leave here this evening, arriving in Newburgh to-morrow about 10 o'clock, and, on his return, will stop in New York and see you. He is familiar with this engine, as well as the Shamokin engines, and we should like very much to have you listen to his report.

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

General Manager.

WORKS AT
540 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARSON ARMINGTON, TREASURER.
H. C. GRANTON, ASST. TREASURER.
GARDNER C. SIME, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., June 18th, 1884. 188

Samuel Insull, Esq.,

85 Fifth Avenue, New York City.

My Dear Insull; Your telegram received. We have three I4, I-2xI3 engines under way, one is finished and our foreman assures me that the other two shall be finished this month. They belong to Hutchinson and are for the Louisville Exposition. We have another lot of five coming along rapidly and three of these belong to Hutchinson, and are for Louisville. We have three I3xI3 engines well under way, one of which is finished, and, after testing, could be shipped immediately. If you could use them it would help us out very much at the present time, as we will ship twenty engines this month and have no finished ones on hand.

A I3xI3 engine would give you more power than the two 8, I-2xI0 engines at Shamokin. Mr. Moore wrote us that Mr. Edison would want a I4, I-2xI3 Central Station engine for the Philadelphia Exhibition, and, although we have no order for it, I have order the shaft and commenced on the job. If necessary, I could spend next Sunday and Monday in New York.

Sincerely yours,

Armington & Sime Engine Co.

General Manager.

WORKS AT
540 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANETON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., June 20 1884

Thomas A. Edison Esq.

Dear Sir

Since writing you this morning we
have concluded to send our men to
Shawmut with indicators, instruments &c.
They will inspect and test the engines
and will also put them in condition
so that they will regulate.

Respectfully Yours
H. C. Sims

WORKS AT
540 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
FARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. DIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., June 20th, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir; -Your favor of June 19th received. Our request concerning the Shamokin engines was not an unreasonable one and we have written the Shamokin people asking for permission to make a test of the engine, and have stated that if the fault is ours, we should be made to pay severely for it. We should be pleased to have you see our letter, and, if they will not forward it, will send you copy.

We are perfectly willing to take the small engines back as mentioned in our letter of June 18th, charging you the cost only. The charge of shipping engines that will not regulate is a very serious one, and we are very anxious that the fault should rest where it properly belongs. The taking out of the engines will in no way prevent this investigation.

You are mistaken in saying we confessed the man we sent to Shamokin was hardly capable of putting the matter right. Would state that the man we sent was one of the best workmen of the Corliss Engine Works, also of the Harris-Corliss. What we did say was, "The man we sent to Shamokin was the only one

T. A. E. 2.

in our employ at the time that could be sent, and we did the best we could under the circumstances. If you desire, we will send the best man we have to Shamokin to run this engine, and we guarantee it to be satisfactory.' We did send you one of our best men, and, when occasion requires, must send him again.

Concerning Vice-President of the Newburgh engine would say, that he is not thoroughly familiar with our engine, as he protested against a cast-iron crank shaft with crank pin forced in, also against piston follower with only nut to hold it on. We also protest against the same thing, and, as our engines have nothing of the kind, his protest does not refer to us. He objects to an over-hanging cylinder, thinking it should have some support under it. Our books show that we have built ^{you} 173 engines and we know of no person better able to judge than yourself, whether this gentleman is correct or not.

We will certainly meet you in all requests you may make and do our best to help you out of any difficulty that you may get into. If the fault is ours, we will assume the responsibility, and, if not, we agree to make a settlement to your entire satisfaction. Command us and you will find us ready.

Respectfully yours,

L. C. Sims

General Manager.

WORKS AT
540 HIGH STREET.



HENRY HOWARD, PRESIDENT.
FARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

PROVIDENCE, R. I., June 20th, 1884. 188

Samuel Insull, Esq.,

65 Fifth Avenue, New York City.

My Dear Insull; -I forwarded Mr. Armington's letter to you for your information and do not clearly remember what was in it. If you will return it to me I will write you, copying the important points so that you may send it to London.

Sincerely yours.

Sims

No answer

*Have sent Armington's
letter myself
Insull*

WORKS AT
548 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

E

PROVIDENCE, R. I., June 23d, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir:—Your telegram received, also letter from W. H. Douty of Shamokin, who is perfectly willing that we should test the engines. We will send our men, as we make this test and examination for our own satisfaction. Mr. Douty says they are to change their two small engines for a 14, I-2x13 and you agreed to have the engine there about this time. We have not received an order from you but are pushing the work along as rapidly as possible.

Our foreman reports that the Central Station engines and dynamos are not in line, and, to start them in their present condition, would be a costly experiment. He states that our Mr. Blanchard was obliged to return on account of his family and not having sufficient clothing. To put the engines in line will require about two weeks.

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

General Manager.

WORKS AT
548 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
NO. 15 CORTLANDT STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARSON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., June 24th, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir:—Your letter of June 23d concerning engine at Circleville, Ohio, received. We had heard of the shut down, but, had we been the engineer, we would have never have mentioned it. They wrote us June 3d asking for a new pair of crank-pin boxes, condemning those we sent with the engine, stating that they were badly cut. The boxes were not cut here and we asked if they made the discovery, before or after they started the engine, but, as they have never answered our letter we have no particulars. April 9th, when writing them about the engine, we agreed to send our man to set it up and start it. Had this privilege been allowed us, the responsibility would have been ours.

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

General Manager.



WORKS AT
546 HIGH STREET.

M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I. June 26 1884

Thomas A. Edison, Esq.

Dear Sir

9/2 x 12 engine from Bellfonte just arrived.

If you have no use for it we will see that it is ^{put} in good condition and ship to E. C. for L. L. Louisville Exposition as they require an engine of this size and being behind with our order this engine will help us out.

Respectfully Yours
G. C. Sims

G

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
NO. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARSON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., July 1st, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir;-Your 9, I-2x12 Bellefonte engine is about finished with the exception of testing. Please give us three or four days notice before you will require the engine so that we may give it a thorough test and ship it directly after.

We furnished extra crank-pin boxes with the I4, I-2x13 Newburgh engine and our foreman informs us that both pair are badly cut and should be re-babbitted. If you will have one pair sent to us, we will put them in condition and ship them with the shaft. The cause of the cutting of the first pair as well as those of the Circleville engine, may have been the same.

Before the engines are started, in all cases, they should be dis-connected and the bearings and boxes thoroughly cleaned, and all cinders and dirt should be removed from the oil holes. Where this is not done, the cutting of the boxes is certain.

Respectfully yours,

G. C. Sims

General Manager.

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
NO. 16 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
HARVEY ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., July 3d, 1884. 188

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir:-Your several letters of July 2d received. We can certainly inform you why the engine at Bellefonte did not regulate properly and will send you our report. We first have a favor to ask, and that is, that you will send the best mechanic that can be found in this country who understands high speed engines, to inspect this one for you and see it thoroughly tested. We to pay all of his expenses.

Send a man in whom you have unlimited confidence. We feel that you should do this as you seem to be the only person who attacks our engines, at the same time accepting the statements of men who are not familiar with good workmanship or the successful running of engines.

We will write John Mullen, Esq. of Shamokin and send you a copy of our letter. As our works will shut down Friday and Saturday of this week, it will be impossible to ship the shaft to Newburgh.

When we ship the Shamokin engine, we will retain an important part so that it cannot be started until our men get

T. A. E. 2.

there, as this engine shall certainly be a success. While our men are at Shamokin, they will make a thorough test of the engines now there.

Respectfully yours,

Armington & Sims Engine Co.

E. C. Sims

General Manager.

P. S. Please send as soon as possible, the missing parts belonging to the Bellfonte engine.

Respectfully,

E. C. S.

Form No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been accepted by the sender of the following message. Errors can be corrected only by repeating a message back to the sending station for correction, and the company will not be responsible for errors or omissions in transmission or delivery of Unrepeated Messages, beyond the amount of bills paid thereon, nor in any case where the claimant has not presented or written within sixty days after sending the message.

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

THOS. T. ROCKWELL, General Manager. NORVIN GREEN, President.

NUMBER	SENT BY	RECD BY	CHECK
59	Wm	Wm	

Received at **85 1/2 BROADWAY.** July 30 1884.

Dated Providence, R. I.

To Wm A. Edison

Co Ware

Have sent our man to Bellefont
Armington Mass.
Engle

This telegram has just been received at the office in 85 1/2 BROADWAY, just below Fourteenth Street, where any reply should be sent.

DIRECT WIRES.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
NEW YORK.

HENRY HOWARD, President
FARDON ARMINGTON, Treasurer
H. C. GRANSTON, Asst. Treasurer
GARDNER C. SIMS, Superintendent
THEODORE ANDREWS, Secretary

PROVIDENCE, R. I., July 10th, 1884, 188.....

Thomas A. Editon, Esq.,
85 Fifth Avenue, New York City.

Dear Sir;-Your several letters with enclosures concerning Bellefonte engine received.

As this was the first engine of its size built by us, we ran it about two weeks, giving it a thorough test under its load of 65 H. P. We obtained excellent indicator cards and good regulation. At this distance we are at a loss to tell the reason for bad regulation and have telegraphed our Mr. Blanchard, who is now at the Government Printing Office, Washington, starting up the I4, I-2x24 for the Isolated Company, to go to Bellefonte and ascertain the cause of the trouble. We have sent him your letters, also the enclosures.

We are inclined to think the regulator may be pushed up against the main bearing as we found the Brockton engine. The variation of steam pressure from 86 to 110 lbs. is altogether wrong. It is hardly a fair test for the engine and must show very wasteful results when economy of coal is considered.

Respectfully yours,

Armington & Sime Engine Co.

G. C. Sims

General Manager.

WORKS AT
546 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARSON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

Handwritten mark resembling a stylized 'e' or '2'.

PROVIDENCE, R. I., July 10th, 1884. 188

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir:—Your letter of July 8th concerning engine returned from Bellefonte received. The writer apologizes for his letter of July 3d and regrets that it was not received in the pleasant manner that it was intended. We certainly appreciate the good work you have done for us, and the purport of the letter was to call your attention to the manner in which your property had been used by inexperienced persons and of which we thought you were unaware.

Respectfully yours,

Armington & Sims Engine Co.

G. C. Sims

General Manager.

WORKS AT
548 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
NO. 15 CORTLAND STREET,
NEW YORK.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. GRANSTON, ASST. TREASURER.
GARDINER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., July 15th. 1884

Thomas A. Edison Esq.

Dear Sir

Your letter asking why 11% 148 at Bellefonte did not regulate, and the reason why bearings heated recurred.

Here are reports as follows.
"About twenty feet of the main steam pipe is 3 inches diameter and the remainder is 3 1/2 inches. To insure good steam admission the entire pipe should be same size of our starting valve 3 1/2 inches. Exhaust pipe is 4 inches diameter just through the floor and the remainder 3 1/2 inches. It should all be same diameter of our exhaust pipe which is 4 inches. As the engine was tested here and indicators and valves, we would like to see some cards from the engine in its present condition to enable us to judge what effect the small steam and exhaust pipes have on the regulation. We made a similar work at Norwester Mass. A steam pipe of sufficient size was afterwards used and good regulation

obtained. The speed of your 11x14 was 275 revolutions, but no person at Bellefonte can tell our man the required revolutions. We will wire him from here. He says the loss of speed is gradual, so we conclude he will easily find the cause. Mr. Perry says he loosened up the springs to make the engine run ~~250~~ revolutions and it lost 25. We can well believe him.

Heating was caused from various reasons. Bearings would not run cool and water was used. Had to shut down. The first thing our man did was to level the bed. The shaft was very near level. A little high on the regulator side. Slides $\frac{1}{8}$ of an inch high at end next to shaft, and bed $\frac{1}{8}$ of an inch winding. Comment is unnecessary. Have the kindness to let us know who set up and started this engine also who is responsible for the piping. Our man will put the engine in order. If it is to run 250 some changes must be made

Respectfully Yours
 C. C. Sims
 Genl. Manager

WORKS AT
540 HIGH STREET.



M. F. MOORE,
GENERAL AGENT,
No. 15 CORTLANDT STREET,
New York.

HENRY HOWARD, PRESIDENT.
PARDON ARMINGTON, TREASURER.
H. C. CRANSTON, ASST. TREASURER.
GARDNER C. SIMS, SUPERINTENDENT.
THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., July 16th, 1884. 188

Thomas A. Edison, Esq.,
65 Fifth Avenue, New York City.

Dear Sir;—We have just received a letter from our Mr. Blanchard at Bellefonte. He says, 'The engine ran so well last night that the foreman of the station said he was satisfied I could go home if I wished, that the engine had never run as well nor anything like it; it beat anything they had seen. They wish to have it slowed down to run 265 revolutions as that speed will run the dynamos fast enough. If it continues to run well to-night and to-morrow night, I shall be ready to leave. The engine did not vary but two turns running steam from 90 to 110 lbs. and they say it does not take more than half the coal or more than one-quarter of the oil.'

We are very much gratified to receive this report and sincerely hope that, in the future, you will permit us to set up and start all of our engines. We will then guarantee them satisfactory in every respect. By so doing, the success of your stations can be assured at once and your collections easily made.

The Circleville people write us that their station

W

T. A. E. 2.

was to be turned over to the local company July 12th, and is a complete success. Although you have had much trouble with our engines in many places, you must agree with us that where they have not been over-loaded and our men have been permitted to put them in condition, they all run well and give satisfaction. The new shaft for Newburgh engine was shipped a few days since and our Mr. Blanchard has been ordered to report at your office on his return, and then go directly to Newburgh.

Respectfully yours,

Armington & Sims Engine Co.

H. C. Sims.

General Manager.

J. W. C.



WORKS AT
546 HIGH STREET.

M. F. MOORE,
GENERAL AGENT
NO. 15 CORTLAND STREET,
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THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., July 20 1884.

Samuel Ingham Esq.

New York City

Dear Sir,

Care Mr. Sims

propose to visit your city tomorrow, and
will call at your office in about 5 o'clock

P. M. I have written Mr. Bachelor
asking him to leave word with you where
and when Mr. Sims can see him.

If you are not in your office when Mr.
Sims arrives will you please leave

Mr. Bachelor's message with some one
who will hand it promptly to Mr. Sims
and much oblige

Yours very truly
Theo. Andrews

WORKS AT
546 HIGH STREET.



HENRY HOWARD, PRESIDENT.
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THEODORE ANDREWS, SECRETARY.

M. F. MOORE,
GENERAL AGENT,
No. 15 CORNHILL STREET,
New York.

PROVIDENCE, R. I., *July 26* 188*4*

*Thomas A. Edison, Esq.,
New York City.*

Dear Sir,

Your two boxes of the 18th inst., together with the letter from Middletown, Ohio, have been received and contents noted.

We will supply the parts missing from the 9" $\frac{1}{2}$ " x 12" engine returned from Bellefonte, in accordance with your request.

Our Mr. Sims proposes to call at your office tomorrow on arrival of the train, about 5 o'clock P.M., and on leaving your City will probably go to Newburgh. Our man, now at the latter place, reports that he is compelled to pay all bills, not obtaining even the shaft until he had paid the freight on it from Providence. This is very unusual, and we presume is the result of misunderstanding, which brought to your notice, will be willingly made right.

Yours very truly,

Arrington & Sims Engine Co.,

Theo. Andrews, Secy.

WORKS AT
548 HIGH STREET.



M. F. MOORE,
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THEODORE ANDREWS, SECRETARY.

PROVIDENCE, R. I., July 30th, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir;—The Vacuum Oil Company of Rochester, N. Y. have written us that they will supply our engines at the Philadelphia Exposition with their celebrated oil, without charge, and we have accepted their kind offer. We have given them permission to attach a suitable card to the engines.

Respectfully yours,

Armington & Sime Engine Co.

G. C. Sims

General Manager.

WORKS AT
646 HIGH STREET.



M. F. MOORE,
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PROVIDENCE, R. I., August 23d, 1884. 188

Thomas A. Edison, Esq.,

65 Fifth Avenue, New York City.

Dear Sir:—Your letter of the 22d inst. received.
We will ship the I4, I-2xI3 engine for Shamokin August 30th, and
the Newburgh engine will follow in a few days. Concerning the
engine for Shamokin would say, that we will retain one or two
of the parts which will prevent its starting until our man can
get there.

Some time since we shipped two engines to Cumberland,
Md. to run in connection with your dynamos, and asked the priv-
ilege of sending a man at our expense to set them up and start
them. To this they agreed, although we received a telegram
asking us to send on parts of the engine to replace those which
were broken, also to send our man by the first train. Mr.
Doubleday who has been in your employ was the engineer and el-
ectrician in charge.

Our man found the bed plates of the engine out of
shape as they were sprung in bolting them down. The boxes
were badly cut and it was necessary to re-babbitt them. In a
few days we will have them in good running order, and, if we

T. A. E. 2.

retain certain parts of your Shamokin engine, a repetition of such work cannot occur. Your 9, I-2xI2 will be shipped Monday or Tuesday for Philadelphia; it is a new engine.

At our earliest convenience, we will supply missing parts to the Bellefonte engine, then make a test and ship at your convenience.

Respectfully yours,

Armington & Sims Engine Co.

A. C. Sims

General Manager.

WORKS AT
846 HIGH STREET.



M. F. MOORE,
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THEODORE ANDREWS, SECRETARY.

CABLE ADDRESS,
ARMINGSIMS,
PROVIDENCE.

PROVIDENCE, R. I. *Sept 13th 1884*

Thomas A. Edison Esq.

Dear Sir

Referring to our conversation some time
concerning three 14 1/2 ~~13~~ Central Station
engines would say that one of them is
now running in connection with your
large dynamo at Philadelphia. The
second one can be shipped in two
weeks, and the third will soon follow.
We are having about all we can do
and now see a good opportunity to
complete this order. When shall we
ship engines

Respectfully Yours

G. C. Sims

Genl. Manager

Form No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions limiting its liability, which have been accepted by the sender of the following message. It can be quoted against only by repaying a message back to the sending station for transmission, and the company will not hold itself liable for errors or delays in transmission or delivery of Unrepeated Messages, beyond the amount of tolls paid thereon, nor in any case where the claim is not presented in writing within sixty days after sending the message.

This is an UNREPEATED MESSAGE, and is delivered by request of the sender, under the conditions named above.

THOS. T. ECKERT, General Manager.

NORVIN ORKEN, President.

NUMBER	SENT BY	RECD BY	CHECK
21	Ms	Hc	13 Paid 940

Received at W.D. GRAND Sept 13, 1884.

Dated Providence R. A 13

To Thos A Edison
104 Spruce St.
Mr. Armstrong wishes to see
you tuesday morning will
you be at home.
Armington Flint

WORKS AT
846 HOOD STREET.



HENRY HOWARD, PRESIDENT.
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THEODORE ANDREWS, SECRETARY.

CABLE ADDRESS,
ARMINGSIMS,
PROVIDENCE.

PROVIDENCE, R. I., *Dec 15th* 188*4*

James Insull, Esq
Waltham

Dear Sir
May I ask you
to remit for our a/c. - These dull times
I am in need of money due to make
both ends meet.

Yours Respectfully
Parson Armington
J. Treasurer

WORKS AT
548 HIGH STREET.



HENRY HOWARD, PRESIDENT.
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PARDON ARMINGTON, TREASURER.
H. G. GRANSTON, ASST. TREASURER.
GARDNER C. BIRD, GEN. MANAGER.
THEODORE ANDREWS, SECRETARY.

CABLE ADDRESS,
ARMINGSIMS,
PROVIDENCE.

PROVIDENCE, R. I., Dec 29 1884

John Knell, Esq
Middletown

Dear Sir
Can you not send me
check for our account - I must all due
me a hint that you can accommodate me
with the whole or a large part by the
1st sum, to make pay roll. -

Obliged Yours Respectfully

Pardon Armington
Jr Treasurer.

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END

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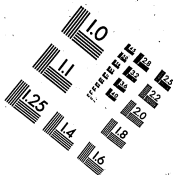
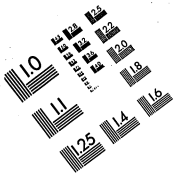
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Centimeter



Inches

